THE BUILDER

INCORPORATING

"ARCHITECTURE" AND "THE BRITISH ARCHITECT"

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BYE-LAWS BYE-PASSED

IT is quite obvious that under the present conditions as to the provision of houses it is no longer practicable to enforce the established bye-laws controlling the methods of construction admissible. Even in respect of those designed to follow more or less traditional lines many variations in structural details must be expected and the task of agreeing as to the suitability of these will rest with the technical advisers to the local authorities who will be unable to apply existing bye-laws and will have to make their decisions solely on the basis of their own views as to efficiency, it not being feasible to provide bye-laws to meet methods still in course of development and for materials still being tested. Many substitutes, both for brickwork and timber, are thought to be of value, while the structure aims at equal or even greater permanence than what has hitherto been the general practice.

Then again we see various schemes for erecting a skeleton framework to carry, in the first place, substitute materials for the outer walls and roof, afterwards intended to be replaced by more permanent ones. Such cases would probably be met by a licence for a term of years, to be made permanent when the buildings took their ultimate form.

Something on the same lines would be required in the licensing of those prefabricated buildings which are recognised as having only a limited life, but in these cases more latitude will have to be given both as to the structures and the general planning because they are usually in a form differing from that designed for permanent houses; for example, the large proportion of one-storey buildings makes demands for site planning differing from the normal, but afterwards capable of being changed to that suited to those of two storeys which are, as a rule, found to be the more economical and satisfactory type for small houses. As far as possible, roads and sewers should be laid out to provide equally well for both the primary and the subsequent utilisation of the land, but this will demand a series of *ad hoc* studies only to be laid down in bye-laws framed on very general lines, indicating rather than defining what is required.

In order to protect the public from the not unlikely production of houses, entitled "prefabricated," which might easily be foisted on them as spurious imitations of the better ones now being devised, it will certainly be necessary to draft some regulations for this class of building, as there is nothing at the present time on which local bodies can decide what is admissible and what may not be. Probably the most important demand in these regulations would be to ensure that such structures, during their limited life, should at least be vermin-proof, as if not they would easily develop into the most appalling slums. It may be desirable to insist on adequate surface covering and on solid construction in impervious material for at least a foot or so above the ground level.

Perhaps we have said enough on these points to indicate, first, that the existing bye-laws cannot operate, and, secondly, that they cannot be immediately replaced without impairing the advance of building construction now in progress by the aid of scientific research and numerous new ideas in the use of materials and their influence on constructive methods. Bye-laws have always lagged behind building practice, and have consequently retarded progress, so that the present crisis, which has put them for the moment quite out of court, seems to offer a good opportunity for reconsidering the whole position. Not only as regards construction, but also in the field of planning, has it demanded constant and sustained effort to bring them into line with advances in practice, and this state of things would continue unless some way is found to keep regulations abreast of those methods which have been accepted as in the best interests of the public.

The progress made in site planning has driven into obsolescence the rules as to road widths, and specific requirements as to heights of buildings and site coverage are following on the same lines. What may be applicable in one case may be quite inappropriate elsewhere, and while admitting that there are a number of regulations that experience has shown to be valid and rational, there are many others that cannot be defended as in accordance with present-day knowledge. Taking the case of brickwork, no consideration is given to the bearing quality of the bricks employed; a brick is a brick, despite the fact that some can carry three times as much weight as others. Then, again, little encouragement is given to the use of hollow or of cellular walling; some materials are entirely ignored, and any types of construction departing from the ordinary can only be introduced with difficulty.

Passing on to questions of masses and heights, limitations by street widths and frontages often fail to give the best results, being in some cases too drastic, in others too liberal. In a land such as ours, having a somewhat limited amount of sunlight, aspect is a vital factor in design, but this is not recognised in any bye-law; even smoke abatement is not yet being adequately dealt with. The provisions as to cubic space and ventilation are primitive and cannot be called scientific; in fact, we should like to see our bye-laws as a whole reviewed by the technicians, economists and sociologists, looking into all those aspects that appear defective in failing to achieve what they aim at.

Even then, this does not settle the point that it is questionable if we can reach the best standards of planning and building with the bye-laws in full control; is it not imaginable that ideas and new methods will always require an over-riding body qualified to test their merits and to enlarge or revise any rules that conflict with them? This is too heavy a task for local bodies or their technical officers, already fully occupied by an increasing number of functions and, though in a few cases local considerations may influence the results, it seems as if the first move would have to come from the Ministry of Health, with other Government Departments and perhaps also aided by consultants in the Universities.

NOTES AND NEWS

Development of New Towns.

THE appointment of Lord Reith as Chairman of the committee to report on proposals for the development of new towns was announced, on September 19th, by the Minister of Town and Country Planning, Mr. Lewis Silkin, addressing the Town and Country Planning Summer School, at Bristol. Mr. Silkin said that one of the most difficult problems was that of fitting the new urban growth into the existing structure of local government. He realised the anxieties of the local authorities on this score, and he proposed shortly to open conversations with representative local authority organisations upon it. He also proposed to appoint a New Towns Committee under the Chairmanship of Lord Reith with the following terms of reference :—

"To consider the general questions of the establishment, development, organisation and administration that will arise in the promotion of New Towns in furtherance of a policy of planned decentralisation from congested urban areas; and in accordance therewith to suggest guiding principles on which such Towns should be established and developed as self-contained and balanced communities for work and living."

He referred to the fact that a Bill dealing with the problem of compensation and betterment was to be introduced during the present session of Parliament.

A solution of the compensation and betterment problem necessitates the existence of an effective system of planning control, and the Local Planning Authorities must be ready to exercise far-reaching new powers with courage and constructive wisdom.

Need for More Town Planners.

MR. SILKIN spoke, in conclusion, of the urgent need for a greater number of qualified members of the planning profession. "Our present information shows," he said, "an immediate need of 1,600 planners, with an ultimate figure of a possible 2,500. It is estimated that to meet this need there are at present less than a thousand persons with planning qualifications or experience, either in this country or in the Forces." This was a situation which might, without undue exaggeration, be described as a crisis. They must stimulate an adequate new entry into the profession, but in the meanwhile something might be done to bridge the gap if architects, engineers and surveyors of proved competence could be persuaded to enter the planning field now.

Sir Hubert Llewellyn Smith, G.C.B.

THE death last week of Sir Hubert Llewellyn Smith removes a figure who—apart from his great work as an administrator in the Board of Trade and in other capacities—did much for the encouragement of art in industry. He had written one of the standard books on the subject, "Economic Laws of Art Production," now unfortunately out of print, but remarkable for its practical outlook on a subject on which a good deal of vague opinion has been published. Like all his social work, and this extended into many fields, his views on art in industry were informed by a full knowledge of people in all walks of life—a knowledge which was happily applied in his direction of the New Survey of London Life and Labour, in which he brought Charles Booth's great survey up to date. Sir Hubert's practical sympathy with artists was shown by the enduring interest he took in the work of the Central School of Arts and Crafts and in the origin of the "Recording Britain" pictures in the early part of the war which gave work and encouragement to artists at a time when painting was in danger of becoming a neglected art.

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Chadwick Public Lectures.

THE first lecture in the Autumn Programme of the thirty-third annual series of Chadwick Public Lectures is to be delivered on Tuesday, October 2, at 2.30 p.m., at the Royal Society of Tropical Medicine and Hygiene, 26, Portland-place, W.1, when Mr. A. F. Russell, A.R.I.B.A., A.M.T.P.I., is to lecture on "Planning for New Housing Standards." Mr. Frederick R. Hiorns, F.S.A., F.R.I.B.A., M.T.P.I., a Chadwick Trustee, is to preside.

Exhibition at the Architectural Association.

AN exhibition of work by American architects and students in the U.S. Forces now in this country who have taken a refresher course in architecture extending over ten weeks is now open at the A.A. in Bedford-square. Varied subjects are shown by American interpretation which makes them of special interest. The exhibition, which will be noticed more fully in our next issue, remains open up to and including Saturday, October 6.

National Parks Committee.

THE Minister of Town and Country Planning (Mr. Lewis Silkin) has appointed Professor R. S. T. Chorley to be a member of the National Parks Committee which was set up by his predecessor, Mr. W. S. Morrison, in July.

Berks. County Architect.

BERKSHIRE County Council invite applications from Fellow or Associate Members of the R.I.B.A. for the post of County Architect. Salary £1,100 per annum rising to £1,400, together with appropriate cost of living bonus. Details advertised elsewhere in this issue.

Lectures on Labour Management.

A SPECIAL course of six lectures on Building Labour Management is to be given by Mr. A. G. Raven, A.I.I.A., at the L.C.C. Brixton School of Building, Ferndale-road, S.W.4 (telephone : Brixton 5913) on Wednesday evenings, October 17 to November 21, 7.30 p.m. until 9.30 p.m. on each evening. The subject-matter of the lectures will be as follows :—*Lecture* 1 : The general foreman; functions, part in organisation, approach to his job. Administrative thought, mind training. *Lecture* 2 : Breaking-down a job, planning in sequence. Importance of simplicity, flexibility, balance, working standards. Handling of materials. *Lecture* 3 : Organisation; objectives, team-work, responsibility and authority, operation, supervision. *Lecture* 4 : Programme; preparation, schedule charts, progress charts, machine output graphs, cost comparison. *Lecture* 5 : Personnel management; leadership, instructions, praise and reproof, avoiding resentment. Factory Form 1892, works committees. *Lecture* 6 : Correspondence, reports, orders, filing systems and records. The fee for the course is 10s. 6d., and applications for admission should be made to the Secretary of the School and should reach him not later than October 5.

Appointments.

MR. GORDON E. PAYNE, O.B.E., F.S.I., M.T.P.I., 2, King-street, Gloucester, has been appointed planning consultant to the East Regional (Scottish) Planning Advisory Committee at a fee of £3,150, exclusive of technical staff and maps. The work will take three years.

MR. JOHN A. BOWDEN, deputy surveyor to Whitley Bay U.D.C., has been apppointed Surveyor in succession to Mr. A. J. Rousell who has retired after 37 years' service.

Professional Announcement.

MR. JOHN W. POPPLEWELL, L.R.I.B.A., M.R.San.I., of Manchester, has been appointed Surveyor of Nottingham University College, and expects to take up his duties early in November, when he will be pleased to receive trade catalogues.

COMING EVENTS

Saturday, September 29.

ECCLESIOLOGICAL SOCIETY. Visit to Some Bombed City Churches. Meet at St. Bride's, Fleet-street, 2.30 p.m.

Monday, October 1.

SOCIETY OF ENGINEERS. Mr. B. A. P. Winton Lewis on "The Engineer and the Housing Problem." Geological Society's Rooms, Burlington House, W.1. 5 p.m. (tea at 4.30 p.m.).

Tuesday, October 2.

HOUSING CENTRE. Miss Bowley on "Housing and the State." 13, Suffolk-street, S.W.1. 1.15 p.m. (buffet lunch, 12.45 p.m.).

CHADWICK PUBLIC LECTURE. Mr. A. F. Russell, A.R.I.B.A., on "Planning for New Housing Standards." 26, Portland-place, W.1. 2.30 p.m.

Thursday, October 4.

A.P.R.B. Miss J. Tyrwhitt's Second Talk on "Current Town Planning in French Canada." 34, Gordon-square, W.C.1. 1 p.m.

NATIONAL COUNCIL OF BUILDING MATERIAL PRODUCERS. Luncheon (guest of honour : Mr. George Tomlinson). Dorchester Hotel, W.1. 1 p.m.

INSTITUTION OF ELECTRICAL ENGINEERS. Dr. Dunsheath's Inaugural Address. Savoy-place W.C.2. 5.30 p.m. (tea at 5 p.m.).

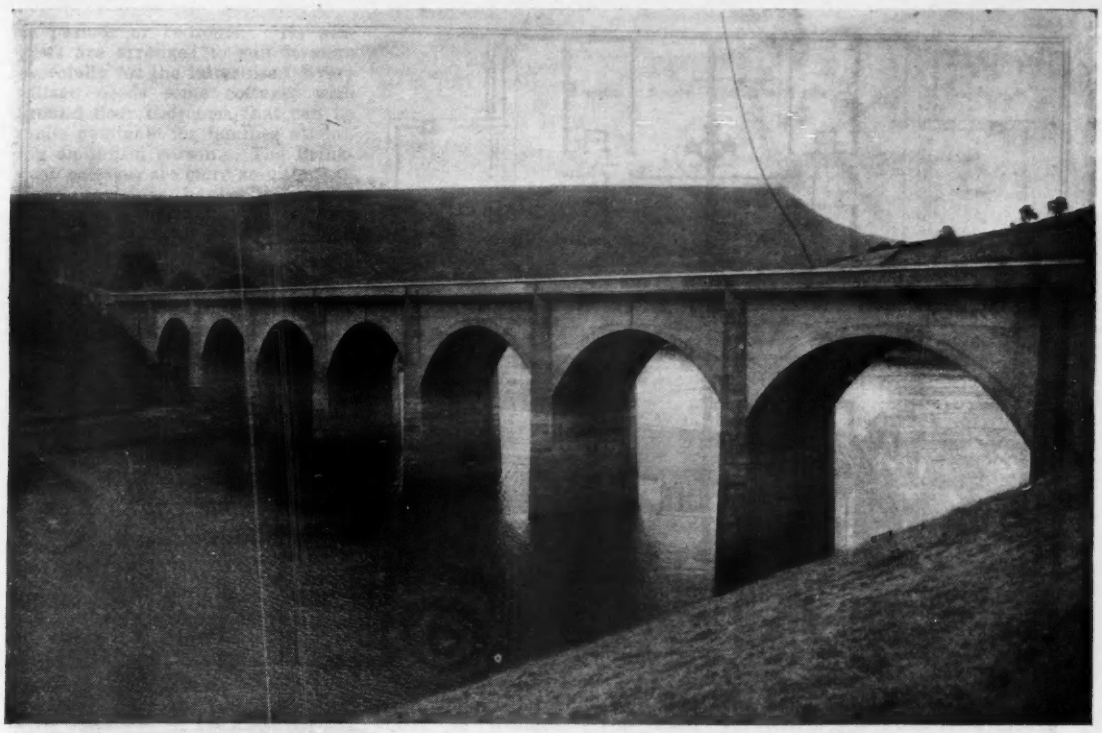
Saturday, October 6.

TOWN AND COUNTRY PLANNING ASSOCIATION. Conference on "Planning Problems of Holiday Areas." Winter Gardens Pavilion, Ventnor. Opened at 8 p.m. by Mr. Lewis Silkin (continues until Monday, 12.30 p.m.).

From *The Builder* of 1845.

Saturday, September 27, 1845.

Every architect in practice has cause to complain of the want of skilful and earnest operatives—men who understand the trade they profess to practise, find pleasure in the exercise of it, and are anxious to produce good work. . . . There are, of course, many clever exceptions; but we speak of the mass. . . . We should be right glad to see all the master builders following the good example set by a few of their body and taking every means to increase the comforts, and raise the character of, the operatives in their employ. . . . To workmen we would say—put your own shoulders to the wheel; become masters of your trade—artisans, not mere labourers—artists if you can, able to give a "because" for a "why?"—make your work your pleasure.—*From an Editorial.*

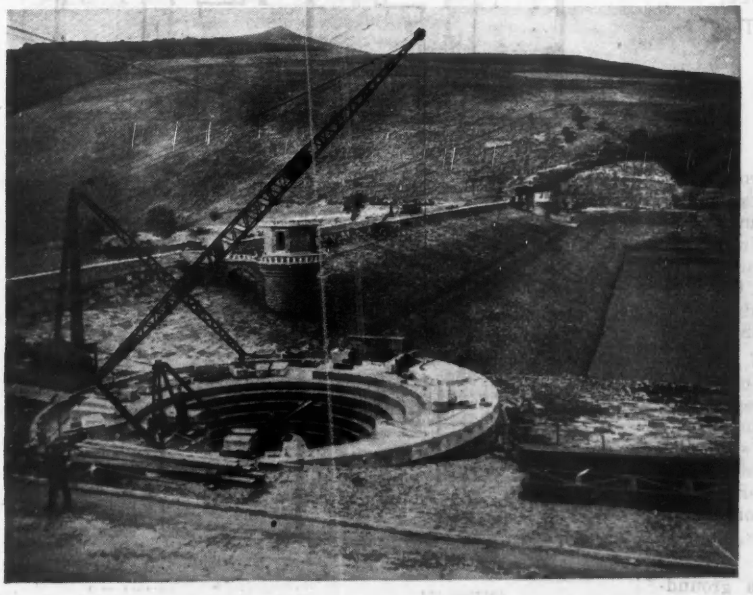


THE ASHOPTON VIADUCT ACROSS THE LADYBOWER RESERVOIR.

THE LADYBOWER RESERVOIR, DERWENT VALLEY

On Tuesday the King and Queen inaugurated the Ladybower Reservoir of the Derwent Valley Water Board. With a surface area of 504 acres, a perimeter of 13 miles, and a maximum depth of 135 ft., the reservoir is said to be the largest artificial reservoir within an earthwork embankment in Great Britain, if not in Europe. The work has changed the face of the district. The villages of Ashopton and Derwent have been submerged, though the historic Packhorse Bridge has been removed and will be re-erected elsewhere. Derwent Hall (1672) was also pulled down, though the oak panelling and other features have been saved The reservoir—which will hold 6,300 million gallons and will serve the cities of Derby, Leicester, Nottingham and Sheffield—is crossed by two viaducts, of which that at Ashopton is illustrated.

The reservoir was designed by Mr. H. P. Hill, M.Inst.C.E. (G. H. Hill and Sons, of Manchester), and carried out by Mr. Richard Baillie, of Haddington, East Lothian. The viaducts at Ashopton and Ladybower were designed by Mr. David Anderson, M.Inst.C.E. (of Mott, Hay and Anderson, of Westminster), and Mr. William Keay, M.Inst.C.E., of Leicester, the contractors being Messrs. Holloway Bros. (London), Ltd.



THE EARTHWORK DAM, SHOWING THE OVERFLOW SHAFT IN FOREGROUND AND VALVE SHAFT.

HOUSING STAFF

ACCELERATED RELEASE.

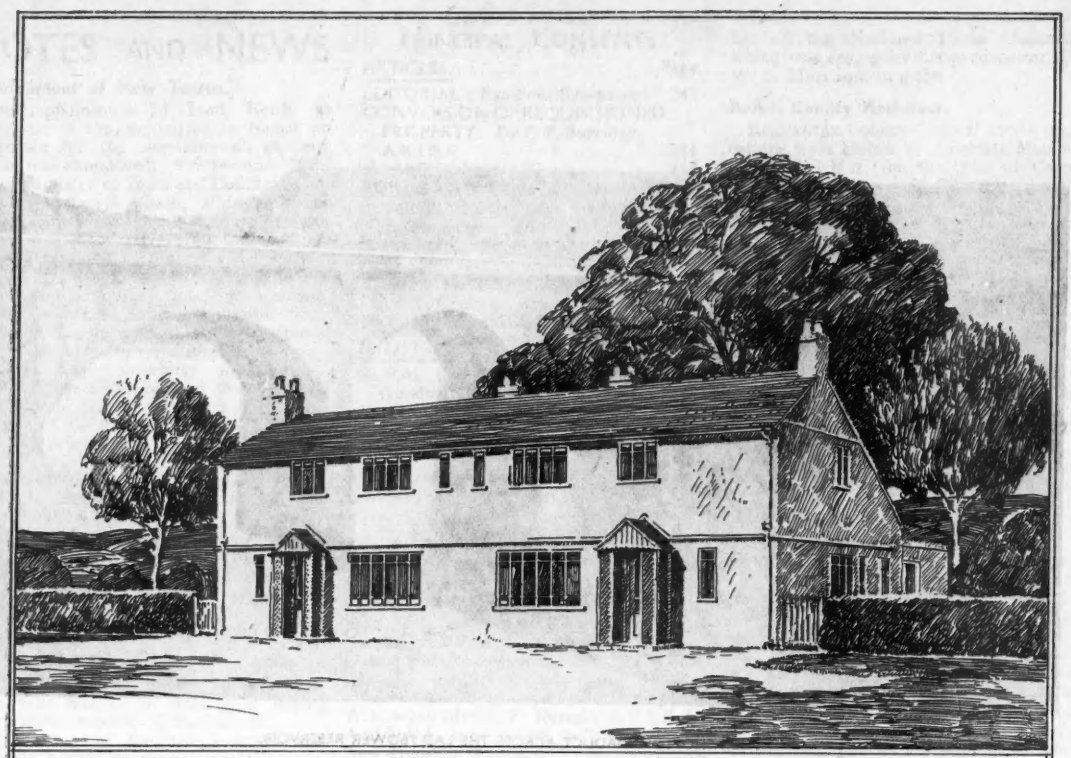
In Circular 163/45, the Minister of Health refers to Circular 103/45 and states that further consideration has been given to the need for the return to Local Authorities of those of their officers now with the Services who are urgently required in connection with their housing schemes. This applies not only to technical staff but also to administrative, legal and clerical personnel.

Each Local Authority is requested to inform the Department :—

(a) The names of the officers engaged on housing work for whose release they have already asked the Department during the past 12 months;

(b) The names of the officers who have resumed duty with the Local Authority.

In order that full advantage may be taken of the scheme of releases under Class B, information should be given at once of those officers whose return is *urgently necessary* if the Council's housing schemes are to develop. It will be appreciated that the operation of the Class B arrangements is possible only if applications are limited to those people whose services are essential at this stage to ensure progress. Information should include answers to certain points set out in the appendix to the Circular. Where the release required is not that of one of the local authority's own staff but of their firm of consultants the application should be made by the firm to the Minister of Works, supported where appropriate by a statement from the Local Authority.

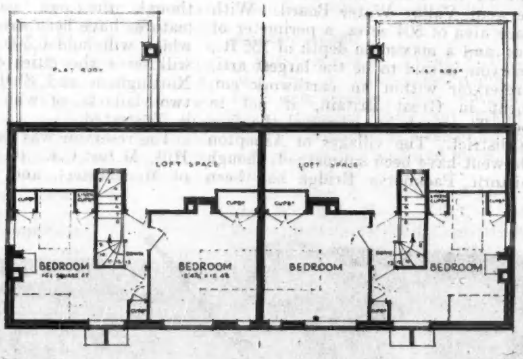


PROPOSED · COTTAGES · AT MARLOW HEREFORDSHRE H.S.GOODHART-RENDEL ARCHITECT 15 CRAWFORD ST W1.

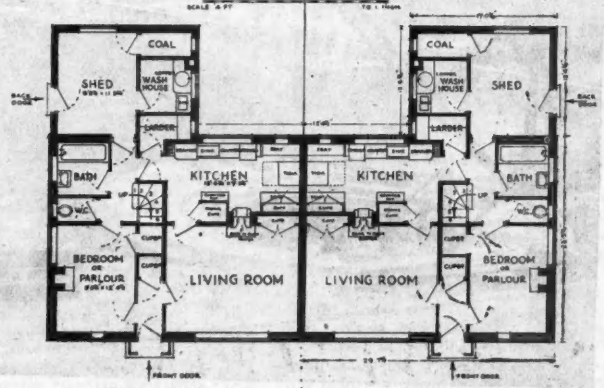
COTTAGE WORK

IN HEREFORDSHIRE, GLOUCESTERSHIRE & SURREY

H. S. GOODHART-RENDEL, P-P.R.I.B.A., ARCHITECT



FIRST FLOOR



COTTAGE Nº 1 COTTAGE Nº 2

GROUND FLOOR

Mr. H. S. Goodhart-Rendel has recently designed some cottages to fill particular needs, and three examples of these are now illustrated—a pair of cottages at Marlow, near Leintwardine, Herefordshire; a pair at Prinknash, Gloucestershire; and a block of four, designed for aged persons, at East Clandon, Surrey.

The plans of the two pairs of cottages are adapted to the needs of rural workers. Foremost amongst these needs is that of a good shed forming the normal means of entrance, and, as it were, the atrium of the cottage. Front doors are provided, but will probably never be used except on rare ceremonial occasions. Roof space for the storage of apples, etc., is approached from the first floor.

The Marlow cottages have a ground-floor room that can be used alternatively

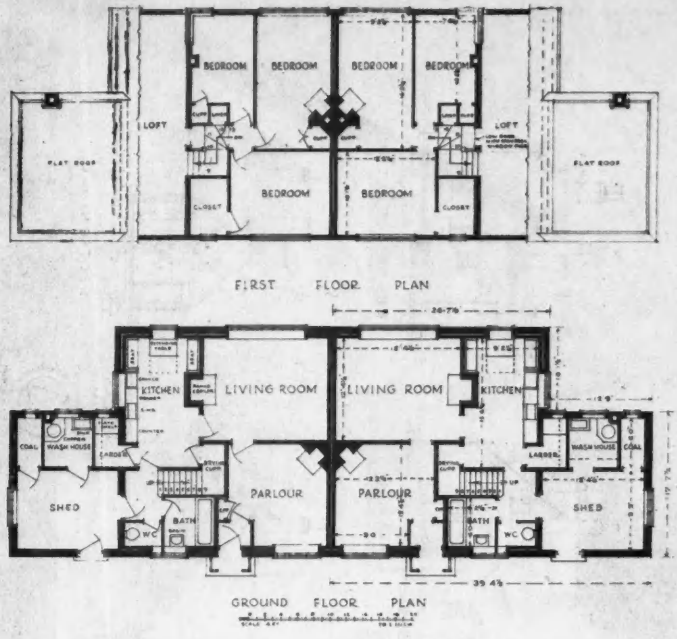
as parlour or bedroom. Its windows are arranged to suit it more especially for the latter use. Every village needs some cottages with ground floor bedrooms that can be made available for families attending an infirm person. The Prinknash cottages are more ambitious in their provisions, having three bedrooms upstairs as well as the parlour below.

The Marlow cottages are being built of whitewashed brick with a roof of grey Welsh slates. It is hoped that Prinknash cottages may be built as shown of stone dug from near the site, with the upper storey of painted weatherboarding. The roofs of these cottages will probably have to be covered with slate.

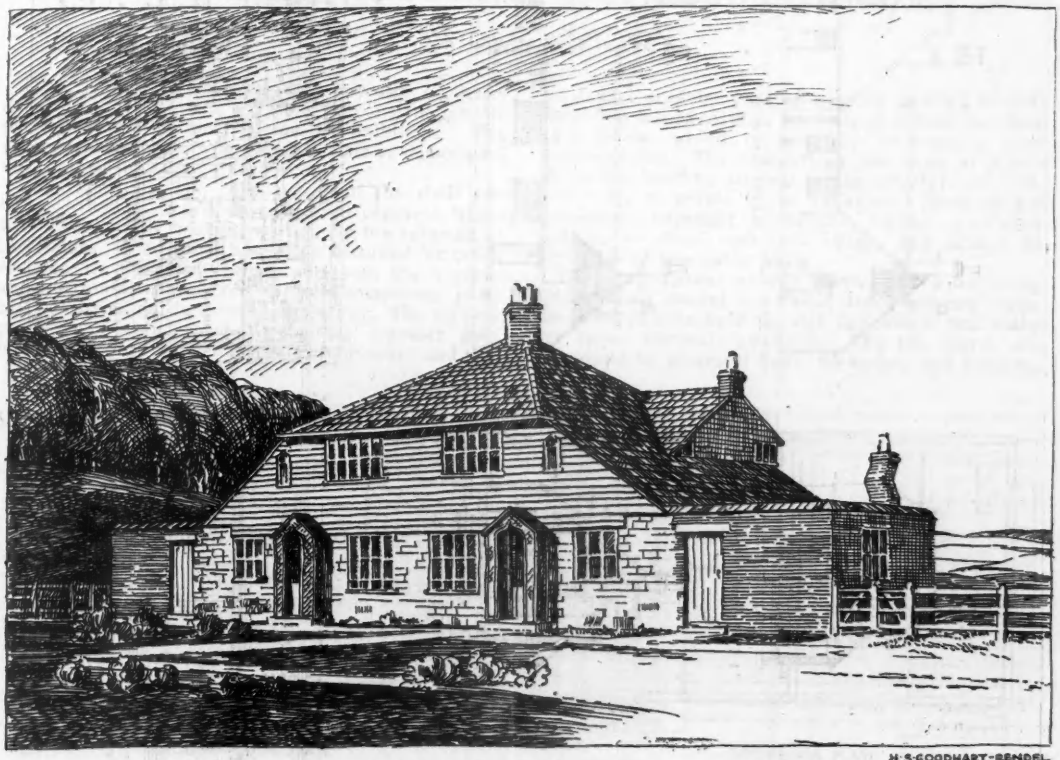
The cottages for aged persons at East Clandon, Surrey (illustrated on page 248) have certain novel features. In East Clandon, as in most other villages, there is a need for small, labour-saving dwellings to be occupied by widows or other annuitants. The block of four illustrated is to be built forthwith.

Two of the cottages have a spare bedroom in the upper storey for occasional occupation by a son or other visitor. The external character of the building is strictly in accord with that of the surrounding cottages so that the block may be in no way distinguished from the rest of the village by any almshouse-like or institutional character. The lights of the windows are of a stock casement size, and are admittedly too large in scale for the rooms, but this at the present time cannot be avoided. The walls would be faced with thin, red bricks bought before the war; the roof would be of hand-made tiles.

Almost all the cottages in the village have leaded glazing, and it is therefore proposed that these should have it also, if it can be obtained. It seems to be as popular with the tenants as wood or metal sash-bars are generally unpopular.

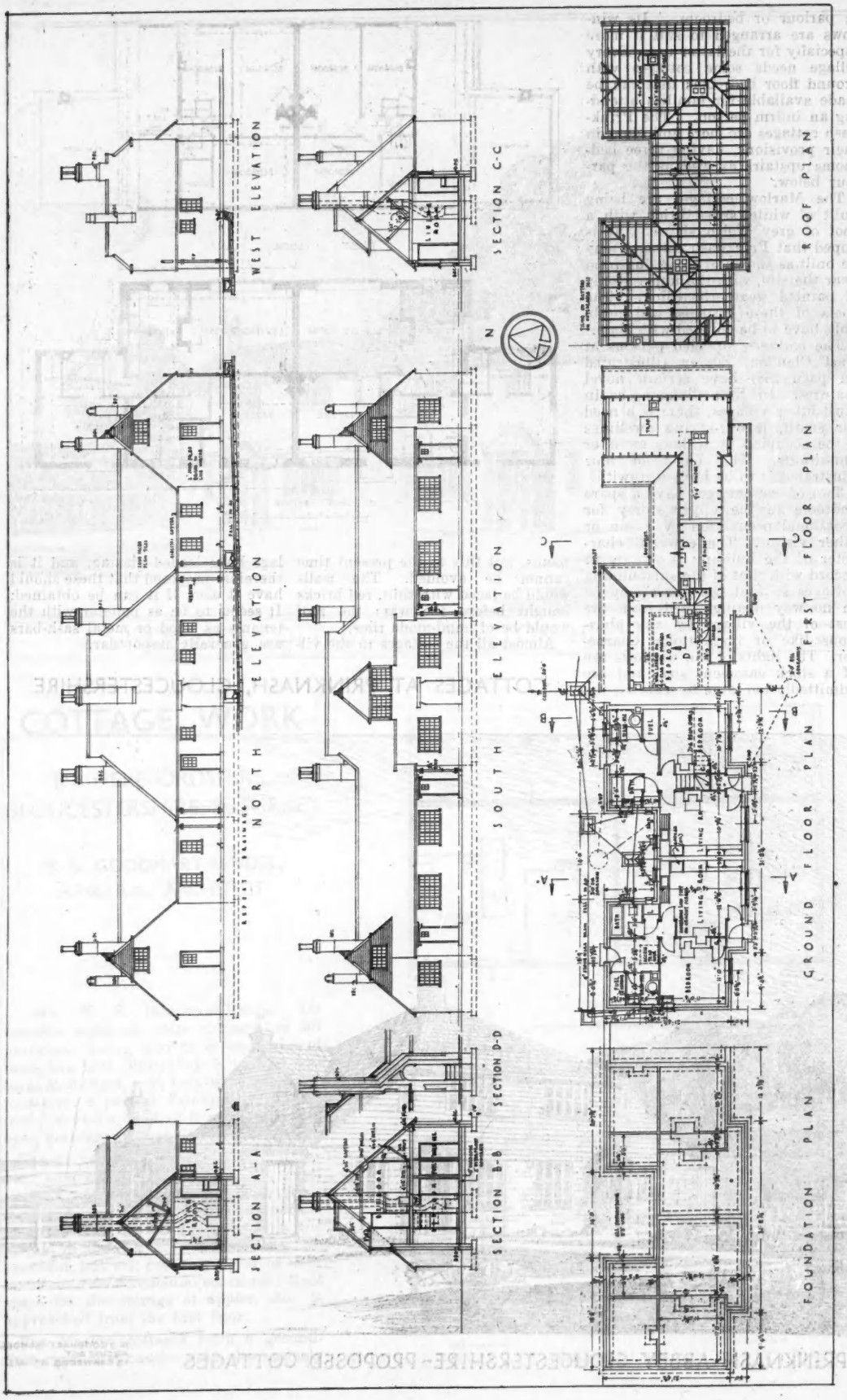


COTTAGES AT PRINKNASH, GLOUCESTERSHIRE

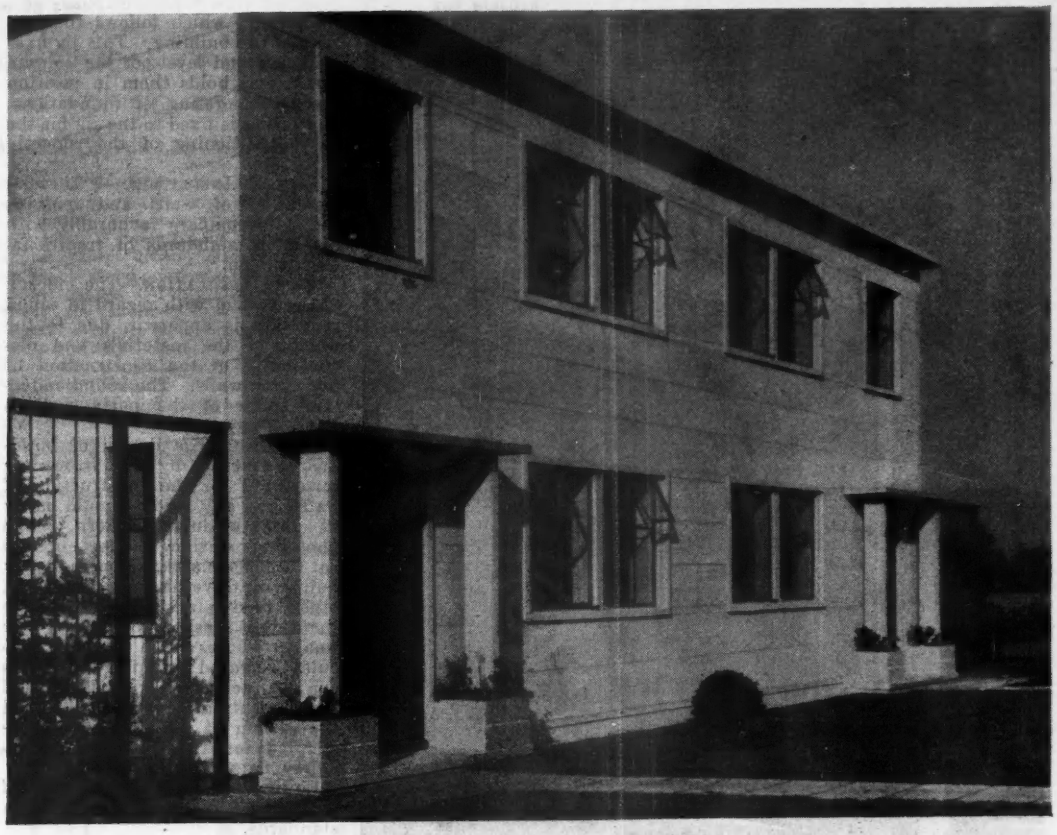


PRINKNASH ABBEY · GLOUCESTERSHIRE - PROPOSED COTTAGES

H. S. GOODHART-RENDEL
ARCHITECT
13 CRAWFORD ST W.1.



COTTAGES FOR AGED PERSONS, EAST CLANDON, SURREY. H. S. GOODHART-RENDEL, P.P.R.I.B.A., ARCHITECT. (See p. 247.)



ENTRANCE FRONT OF PAIR OF HOUSES.

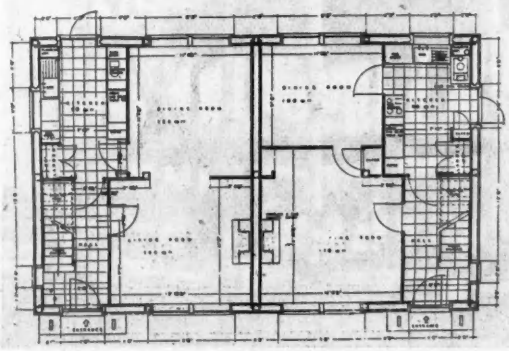
THE "ORLIT" PERMANENT MASS-PRODUCED HOUSE

E. KATONA, ARCHITECT.

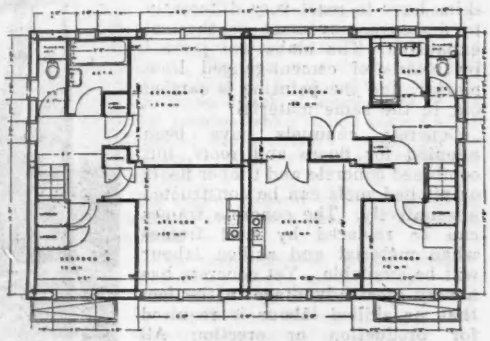
THE "ORLIT" METHOD IS THE OUTCOME OF MANY experiments to provide a system of construction for permanent multi-storey domestic buildings. The photographs and drawings show a pair of demonstration houses built in Colnbrook.

CONSTRUCTION.—The construction of the shell can be described as a precast reinforced concrete frame with cavity walls held in position by the columns of the frames. The frames have been designed for quick erection by unskilled labour, and both the vertical and horizontal connections of their component parts can be carried out in a very simple way. The vertical connections are formed by bolting together steel plates cast into the ends of the columns, and the horizontal ones by pouring a small amount of concrete into the cavities at the ends of column brackets and beams, which contain the overlapping steel reinforcement. The connections are made at points where the bending stresses in the structure are low, preferably at points of contraflexure. These simple operations engender monolithic frames, providing support to floor and roof beams and acting as stiffeners to the outer walls.

The walls consist of two leaves, the outer being formed with special stonefaced dense concrete slabs, the inner in turn built up with lightweight wall slabs for better thermal insulation. The two leaves are connected by means of metal tie-wedges and bonders,



GROUND-FLOOR PLAN.



FIRST-FLOOR PLAN.

E

DETAIL VIEW OF FRONT ENTRANCE.

which make them act as a single wall. The finish of the external slabs is an integral part of the slabs themselves, achieved by exposing stone or marble chippings through mechanical treatment of the surfaces. There is a wide range of attractive colours and textures.

Medium-sized slabs have been chosen as a useful modular unit, both for planning and fenestration. The relatively small slabs have also the advantage that any expansion or contraction could be easily absorbed by the joints, most essential in that the inner and outer skins have to react very differently to moisture movement or thermal expansion. The slabs are jointed by means of cement-gauged lime mortar, and the pointing is carried out in the same material.

Concrete channels have been adopted for floors and roofs, but combined concrete and timber floors or pitched roofs can be constructed alternatively. The concrete frames can be replaced by steel frames when material and skilled labour will be available. Yet concrete has a very great advantage in the fact that no skilled labour is required for production or erection. All materials are immediately available in all parts of the country. The manufacture of all constructional units can be easily carried out on the site, and everything can be stored in the open before being sent to its definite location. The material resists fire, impacts and weathering.

The setting out on the site is simplified by the employment of a special jig, which follows the outlines of the building. This jig fixes distances and levels of the column bases, and holds them in position during concreting of foundations. Shuttering is fixed to the jig for the exact positioning of the concrete curb.

THERMAL INSULATION. — Thermal insulation of walls and roofs is stated to compare favourably with the latest standards of traditional construction.

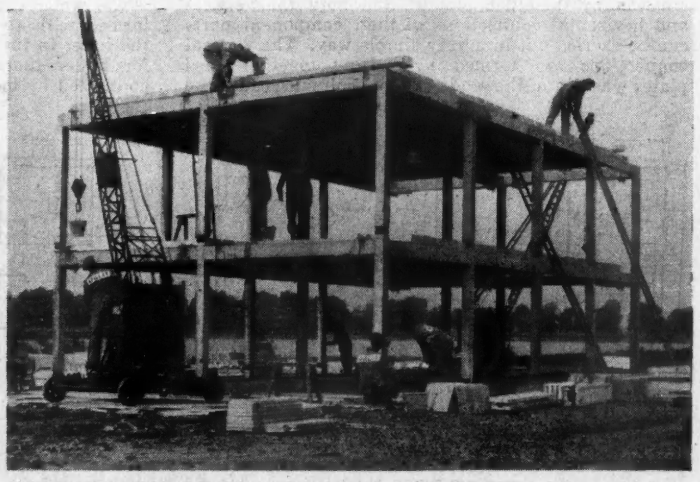
SOUND INSULATION.—The efficacy of the system with regard to sound reduction is apparent, due to the weight of the materials and discontinuity of the construction of the party walls. The sound reduction factor of the party wall is R. = 56.

PLANNING.—The design of buildings is governed by the 2 ft. module introduced for the construction of walls, and any layout should easily fit this modular pattern. The photographs show houses of 880 sq. ft. of floor area, being the types built with Government subsidy, but other type plans go to indicate that the design of larger or smaller houses is in no way difficult. Terraced grouping of houses can be achieved with the usual amendments of the end walls, and the system of construction can be adopted for the design of multi-storey flats, schools, etc.

EQUIPMENT.—The equipment of the houses complies with British standards.

FLOORS.—These are as follows:—Living room, jointless "Semtex" floor; hall, kitchen, bath and lavatory, "Orlit" tiles; bedrooms, Columbian pine strip flooring; ceilings, plasterboard fixed to battens. Roofing is built-up "Ruberoid" covering; hot water supply, Sadia U.D.B. hot water storage heater; and refrigerator, "Electrolux." Kitchen and built-in furniture was supplied by Kandya, Ltd.

COST.—By comparison of estimates, it was found that the cost of houses can very nearly be expressed as £1 per sq. ft. of floor area, i.e., £880 for 880 sq. ft. type.



ERECTING THE PRE-CAST FRAMEWORK. THE FIRST FLOOR AND ROOF ARE ALREADY IN POSITION.

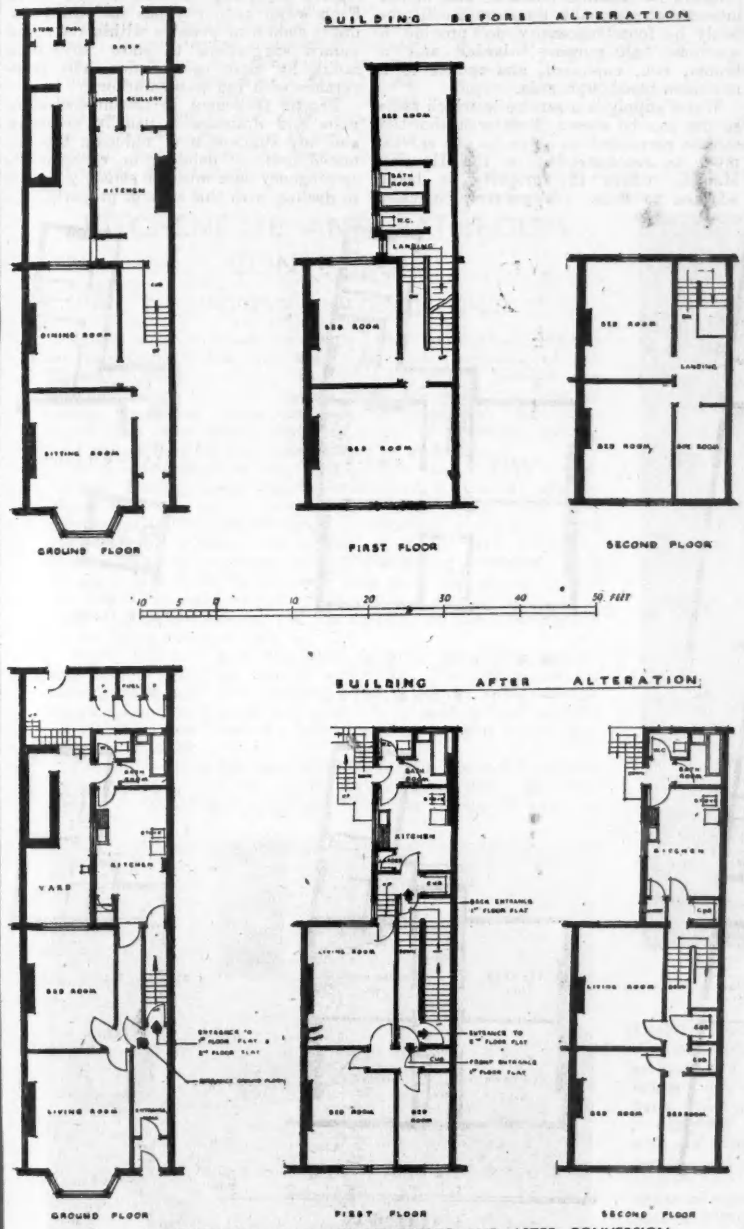
CONVERSION OF REQUISITIONED PROPERTY ADDING TO THE HOUSING POOL

By P. F. BURRIDGE, A.R.I.B.A. (BORO' ARCHITECT, STOCKTON-ON-TEES)

THE problem of dealing with old property, designed (apparently) to absorb a maximum of servant and housewife hours in its management, is receiving the attention of almost every urban authority. Every town has its street or streets which, while no longer genteel and dignified, are not so sick with the cancer of depreciation that they cannot even yet be saved by an operation—albeit a major operation.

Depreciation beyond habitable condition aggravates the housing problem in two ways. In addition to creating a housing shortage through the individual house being no longer available, it results in a gradual lowering of the standard of the street. Good tenants leave the street, and rents, insufficient to meet the maintenance costs, are changed, in order to attract a different class of tenant, the result being that tenants to whom the property is totally unsuited occupy the houses.

Often the tenants are of the worst type—the type of which have yet to be educated to a higher standard of living. But just as often they are good citizens of small income who, while the rent is within their capacity, find it beyond their means to buy the necessary fittings, nor have they the time, or possibly the energy, to keep as they would wish a house designed for a much higher income level.



NO. 15 HARTINGTON ROAD: PLANS BEFORE AND AFTER CONVERSION.

A Rehousing Opportunity.

The problem is not new, but before the war the solution was nothing short of a clearance scheme involving many good properties. Now, as a result of the war, local authorities have an opportunity of both easing their housing problem and avoiding potential slums if they tackle the conversion of old dwellings wholeheartedly.

Under Ministry of Health Circular 2871 (not to be confused with the new M.o.H. direction on requisitioning empty houses), property can be requisitioned and converted to provide additional housing accommodation at a cost not exceeding £400 per flat or £500 per house. One of the major differences of opinion between local authorities and the Government Departments is in the matter of subsidy on housing. Here it does not arise, for the Government will reimburse the total capital cost, and, indeed, my experience is that there has so far been no cheeseparing in the field of conversion where approval to expenditure is concerned.

There is, therefore, every inducement for the local authority to handle the problem wholeheartedly and to see that a high standard of planning is maintained. It is more difficult to apply one's enthusiasm to conversion than to "brave new" estates. Nevertheless, the collective contribution to the easing of the housing problem in this manner can be enormous if the will is there.

Procedure.

The procedure adopted by the writer's authority is first to invite the owner to make the property habitable or to convert it into flats, as the case may be, with the offer of technical assistance up to the point of assisting him to arrive at a decision. There is little inducement for the owner, as he can normally never hope to see a return for the necessary capital outlay. Almost invariably, therefore, he indicates that he has no intention of undertaking the work, whereupon the authority, with the approval of the Ministry of Health, requisition the property. It is found that in the case of dilapidated property it is wise to spend a few pounds on sealing up windows on the ground floor to prevent entry immediately the property is entered for the purpose of survey. It is my experience that so soon as the authority announces its interest, the owner ceases to give it attention. Materials of substantial value, particularly joinery, are often, in consequence, removed by unauthorised persons. Extras are palatable to nobody, least of all the architect.

Planning Self-contained Tenements.

In the matter of planning, nothing short of complete self-containment should in my judgment, be aimed at, and most of the old properties can with ingenuity be so adapted. To plan on a theory that intimate facilities can be shared between occupiers shows a lack of appreciation of the social problem which should inspire every stroke of the architect's pencil in his handling (*inter alia*) of conversion problems.

The type of property vacant or becoming vacant at the present time in urban areas includes :—

The narrow-fronted terrace house—dilapidated beyond use for living;

The large type of house requisitioned by the Services during the war and usually in fair condition; and

Disused living space over shops.

The most common type, and the most difficult of conversion, is the narrow-

fronted terrace type. Inevitably the entrance hall and stairs must be planned on a communal basis. Cleaning is a problem which must be determined by a clearly understood tenancy agreement, but artificial lighting is often a source of disagreement and can best be met by a separate circuit for lighting common to more than one tenant, metered separately and charged to the housing authority. Two-way switching requires careful attention if care in usage is to be encouraged. Human nature is such that the same care is not exercised with other people's property, and low-wattage lamps in locked bulkhead fittings will probably be found necessary.

The wear on uncovered wooden stairs may justify the provision of lino pads, for it is too much to expect that tenant will provide stair covering common to other users.

Secondary access to each flat, although not required under the Public Health Act for buildings with the top floor less than 20 ft. above street level, is considered to be a primary necessity. Usually the only, and most economical means, is the provision of an outside steel stair. The landing at each level can at very little additional cost be extended to provide refuse-bin space.

Fuel storage is best dealt with by providing a main fuelhouse to each flat near the foot of the secondary stairs and a small supplementary store inside the flat, thus enabling the man of the house to keep the supply sufficient for the day's needs in his absence.

There is rarely a drainage connection at the front of the type of terrace house the writer has in mind, and in any case the disposition of the rooms rarely lends itself to the provision of kitchen and/or bathroom at the front of the house. Internal planning for room-to-room circulation is therefore difficult and one is almost always forced, in the interests of reasonable economy, to sacrifice the bathroom-to-bedroom circulation in order to save the more essential kitchen-to-living-room access.

The Kitchen-Package Unit

The kitchen-package unit will no doubt be a substantial contribution to a solution of the conversion problem when it is in full production.

There is no opportunity for quantity production in cupboard fitments, as each plan presents its separate problem, and in the interests of reasonable economy it will probably be found necessary to provide a spacious "all purpose" larder and a broom, etc., cupboard, and reduce to a minimum fitted cupboards.

Water supply is a service in which some saving can be shown if water authorities can be persuaded to agree to one service pipe, as recommended in the Housing Manual, where the property is being adapted to flats. A general objection appears to exist, and can probably be summarised under three heads :—

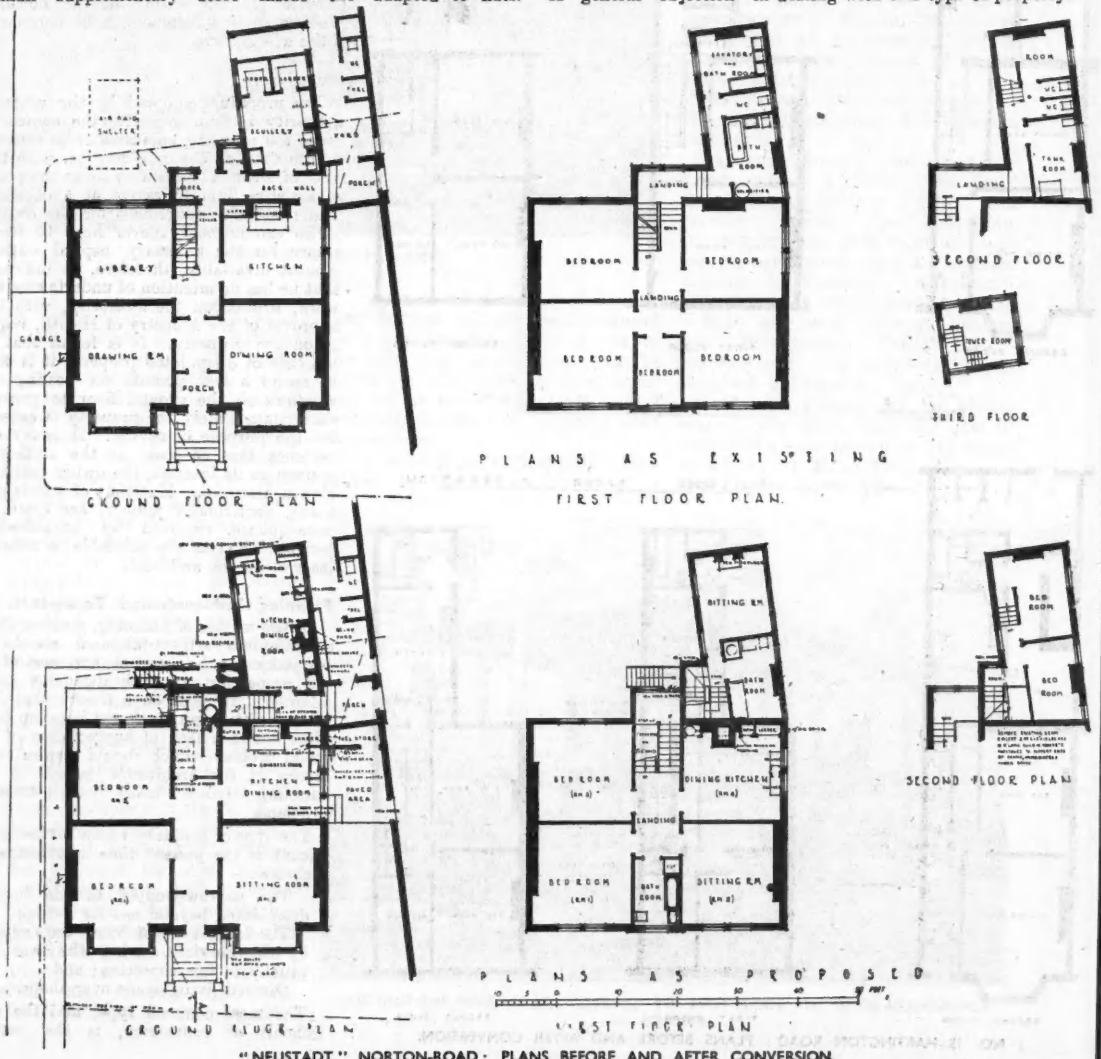
(1) Water-rate assessment.

(2) Ability to cut off the service in cases of default or non-tenancy.

(3) A desire to reduce the pipe work between the stop-tap and the main to a minimum, to avoid potential expenditure on repairs to be borne by the water authority.

The first can, in any case, be overcome by the local authority setting a rental inclusive of water-rate and the water authority fixing the rate on the block of flats. Alternatively, it can be dealt with in conjunction with a solution to the second problem by providing a stop-tap in the communal space (hall and stairs) which is always accessible and providing a locking device for the use of the water authority. The third objection can be met by the normal footpath stop-cock which is often existing, combined with the inclusive water-rate method named above. Each water authority has its own views, but it should be possible within the above-named suggestions to show substantial saving by close co-operation and perseverance with the water authority.

Drastic treatment in the matter of repairs and drainage is usually necessary, and any suggestion of reducing the estimated cost by deleting or reducing the contingency sum must be strongly resisted in dealing with this type of property.



"NEUSTADT," NORTON-ROAD: PLANS BEFORE AND AFTER CONVERSION.

Accommodation Over Shops.

In adapting accommodation over shops it is often found that a successful plan necessitates drainage and light easements over neighbouring property. It is wise not automatically to dismiss the plan without inquiry. The writer's authority have perhaps been fortunate, but they have, nevertheless, been successful in negotiating a number of such easements by formal agreement. Unused and decaying property has an adverse effect on property in the vicinity, and this fact will often influence a neighbouring owner's attitude towards granting an easement.

Cost in works of this nature is relatively heavy. In terms of £ s d it can, of course, be argued that housing is part of the war legacy, and the case for reduction in cost can be argued only to the same degree that it could be argued for aeroplanes, tanks and guns. In the matter of man-hours, however, there is a substantial increase over normal buildings. In one typical dilapidated terrace-type conversion the man-hours to provide the three flats were 6,200, or 2,000 hours per flat. Before the war it was reckoned locally to use 2,000 man-hours per speculative-type house (3 bed, 2 living rooms). In both cases the figure excludes, of course, manufactured articles.

The technical man-hours involved are considerably in excess of those used in normal estate building, as each individual property is a separate problem. In terms of houses I estimate very roughly on work carried out in my office that the same number of technical man-hours are required for 10-15 conversions as would be required for one estate of, say, 100 houses.

Cost Analysis.

Costs, compensations and rentals obviously vary much in each case, but it is unlikely that in any case the undertaking will be economical in terms of money. The "cost" analysis of one example is as follows :—

Estimated value before requisitioning (1939 value)	£150 to £200
Capital cost of adaptation (excluding professional fees)	£1,325
ANNUAL EXPENDITURE—	
Compensation payable under Requisition Notice	£19 10 0
National Loan charges (20 years)	89 0 0
Supervision, repairs and maintenance, etc., £5 10s. per flat	16 10 0
	£125 0 0

Equivalent to £2 8s. 1d. per week.

In assessing rents, reference is to be made to Ministry of Health Circular 2845, in which there is some ambiguity :

"The rent to be charged should not be less than the amount that the person occupying the premises might reasonably expect to pay as rent if housed in the normal way in the district, and so far as possible the aim should be to obtain an economic rent."

The rents fixed in this case were 10s., 12s. 6d. and 12s. 6d.—*i.e.*, a total weekly income of £1 15s.—leaving a deficiency of 13s. 1d. per week, or £34 per annum.

Notes on Accompanying Plans.

15, *Hartington Road:* Large, old terrace house with attic. It has been empty for a long time, after having been let as tenements and subsequently left in an insanitary condition. Since then looting has taken place and almost all the joinery woodwork removed. The project : Repair and divide into three self-contained flats with secondary access.

"*Neustadt,*" *Norton Road:* Rather large detached residence. It has been occupied during the war by R.A.F. personnel. The project : Repair the property and divide into two self-contained flats and a small house, each with its own garden.

KITCHENETTE AND BATHROOM CONVERSION

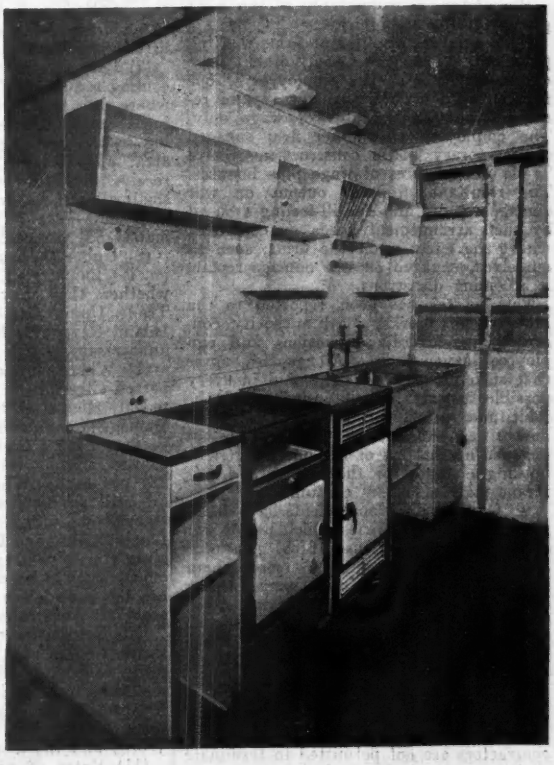
THE "ORTYX" PACKAGE UNIT

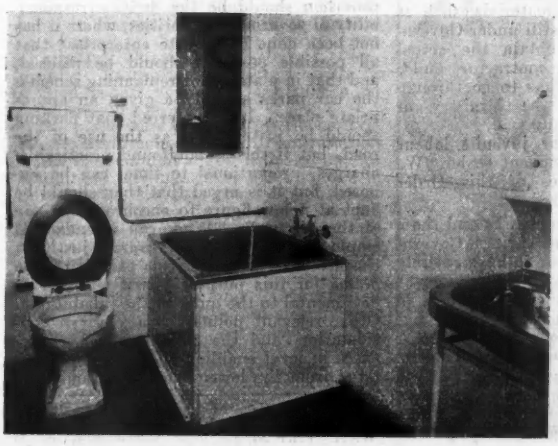
THERE ARE THOUSANDS OF THREE- AND FOUR-STOREY HOUSES in this country standing empty or, under pressure of the present housing shortage, being used by several families who through force of circumstances have to make the best of living conditions which can only be considered inadequate. Some time must elapse before execution of extensive gutting and remodelling of the interiors can be undertaken.

As a contribution to this vital problem the "Ortyx" Conversion Package Unit has been designed to convert rapidly three- and four-storey terraced and larger type houses into convenient self-contained flats. It provides the privacy and essentials for hygiene and kitchen work for each individual family. The unit consists of a fully-equipped kitchenette and an up-to-date bathroom complete with plumbing, gas or electric services. The only temporary fitment is a sit-bath; a full-size bath can be substituted for the sit-bath as soon as supplies of the latter are available.

The "Ortyx" unit has been designed for fabrication in non-priority materials readily available. The entire unit is factory-made and the sections constructed to pass through doorways and up narrow staircases. It is easily pieced together on site in a few hours by labour not accustomed to building installation work.

The unit—which has been designed for Sir Lindsay Parkinson and Co., Ltd., and was shown by them at the "Post-War Homes" Exhibition organised by *The Daily Herald* at Dorland Hall, Regent-street, S.W.1, consists of an "L"-shaped structure complete with a plumbing unit designed for all water services and gas or electric connections. The toilet side comprises a low-down w.c suite, sit-bath, toilet basin with splash back, toilet shelf with mirror above. The kitchen side includes a complete range of counter-height fitments, stainless steel sink and single draining board, special 15-gallon storage water heater, and provision of M.o.W.-type cooker. Shelves in the counter-height fitment can be removed to provide space for either refrigerator, wash boiler or solid fuel container, in which case additional shelving is provided over the cooker. Above the counter-height fitment are nests of shelves and a specially designed plate-rack.





Left: THE BATHROOM. *Above:* THE KITCHEN.

CORRESPONDENCE

[Whilst we are glad to publish letters on professional and other matters of interest to our readers, it must be understood that we do not necessarily endorse the remarks of correspondents who will oblige us if they will express their views as briefly as possible.]

The Condition of the Building Industry.

To the Editor of *The Builder*.

Sir,—It is with profound regret that I have been forced to the opinion that it is essential for the Press to take up the question of present conditions applying to the building industry within the London area.

During the past month or so I have communicated with the Ministry of Works, Ministry of Labour, Trade Associations, etc., with no signs of any real action to deal with these matters, and I feel that it has now become a duty to make public these facts.

As a last resource I addressed a personal appeal to the Minister of Works some ten days ago for an interview in order to place these facts before him. but I am still awaiting this appointment. Never in my experience of the building trade have conditions been so chaotic. There is a glaring and obvious lack of co-operation between authorities. There are no stable or consistent conditions between employers or employees, and there is a lack of fair and proper conditions between the employees of one firm and another.

Hereunder are a few only of the most glaring of the ambiguities :—

(1) Employees of different firms working practically alongside each other have different incomes. The employees of one firm engaged on war damage repairs receive Trade Union rates of wage only. The employees of another firm engaged on temporary house construction receive Trade Union rates of wage plus bonuses. The resultant drop in output on war damage repairs and the ill-feeling aroused by such arrangement needs no comment, whilst the effect upon the firms, such as ourselves, engaged on war damage repairs is becoming disastrous.

This matter has been reported to the Ministry of Works, local authority concerned, employers' associations and employees' associations. All parties agree that such practice is detrimental in every possible aspect, but notwithstanding the multitude of Government Departments, authorities, committees, etc., at present engaged on matters of the building trade, nothing changes for the better, and this insane state of affairs continues.

(2) Government Departments have designated a list of priorities which places war damage repairs to houses fifth. National Service officers and the Ministry of Labour frankly inform contractors engaged on war damage repair contracts (originally placed with them by the Ministry of Works with no alternative) that no additional labour can be sent to them in view of the priority list, and no replacements of labour will be given for employees released on medical or other grounds.

(3) Under the Essential Work Order such contractors are not permitted to terminate their contracts without losing the whole of their employees, and here again the result is somewhat obvious. My company was one of the first to enter into a contract with the Ministry of Works for war damage repairs, which contract was subsequently transferred to the Lambeth Borough Council, and I fear that ultimately, unless there is an immediate alteration in existing conditions, we shall lose the men in any case.

(4) We fully understand the feelings of our own employees, and, being normal humans like myself, they are naturally disgruntled that they should be called upon to do work which, in fact, requires greater skill than the erection of temporary hutments and for which they receive less payment, and our views in these matters are supported by the Area Officer of the National Federation of Building Trades Employers.

(5) There are glaring examples of the deliberate disregard of Defence Regulation 56 (b). Firms are operating without licences, rates above Trade Union rates are being paid, and bonus payments are being made where they are not permissible. Many of these cases have been reported to the Ministry of Labour, but action is slow or almost non-existent.

(6) Under the Essential Work Order employees are not allowed to leave their work and seek other employment without proper release by the National Service Officer. There are hundreds if not thousands of examples of men who have left their employment without proper release, and the procedure to be adopted to get action by the Ministry of Labour is so slow and cumbersome that it becomes almost impossible.

We have our personal experience of many employees granted their release on medical grounds, and our sympathies on this subject are with the National Service officers who have apparently no power to question a doctor's certificate. We have recently had one employee who obtained his release in this manner on the grounds of an operation which he had undergone fifteen months previously.

(7) Large numbers of men are now becoming redundant from aircraft factories, where they have, with bonus, been receiving about 3s. 8d. per hour and are returning to the building trade in the London area, and under Trade Union rates can receive 2s. 3½d. per hour, plus certain small allowances, which means that these men now face a reduction of approximately 33⅓ per cent. in their income.

(8) Under the conditions of the E.P.T. it is immaterial to some employers whether they pay rates in excess of Trade Union rates or pay money to the Inland Revenue. Here again comment is unnecessary.

(9) Where our employees are on dispersed sites but on separate contracts for private clients we are allowed by the War Damage Commission an overriding percentage for overheads, establishment charges, profit, etc., of approximately 22½ per cent. When, however, our men are still on dispersed sites, but the contract is with one authority, such as the Lambeth Borough Council, we are allowed approximately 10 per cent. The same offices have to be occupied and office rent has to be paid, the same amount of plant, tools, etc., has to be provided.

(10) Certain building materials, such as slates, timber, etc., are still under Government control, and to obtain the actual materials on the site a contractor, under the present procedure, has to go through three departments of the Ministry of Works and the merchant.

(11) Rates of pay for juvenile labour are controlled by Government Order. We have repeated instances of this Order being deliberately ignored.

The control of building works and those engaged thereon by the various Government Departments appear to have entirely broken down.

I do not envy the Minister of Works in the enormous task which faces him, but I do feel that those who are endeavouring to assist him should receive the support of him and his colleagues by immediate action to abolish the anomalies mentioned herein, upon which, if space permitted, I could, I regret to say, greatly enlarge. Needless to say, I and many others engaged in a similar manner in the industry would welcome the opportunity to assist in rectifying this unhappy state of affairs.

In conclusion, may I suggest that, having fought a war for six years for ideals, surely the obvious basis for the solution of our many post-war problems will be to follow those very ideals for which men have fought and died. In all sincerity I therefore propose that in the building trade it is only logical to suggest agreed Trade Union rate of wages and working conditions, such rates of wages to be *pro rata* with the other industries of the country, but that each Trade Union rate should have a margin to give the employer his rightful and proper choice of discriminating between the good, the fair and the indifferent worker, and that all other forms of bonuses, etc., should be cancelled forthwith. In my opinion the vast majority of operatives would welcome this arrangement.

R. B. Burden,
Managing Director, R. B. Burden, Ltd.
Hounslow, Middlesex.

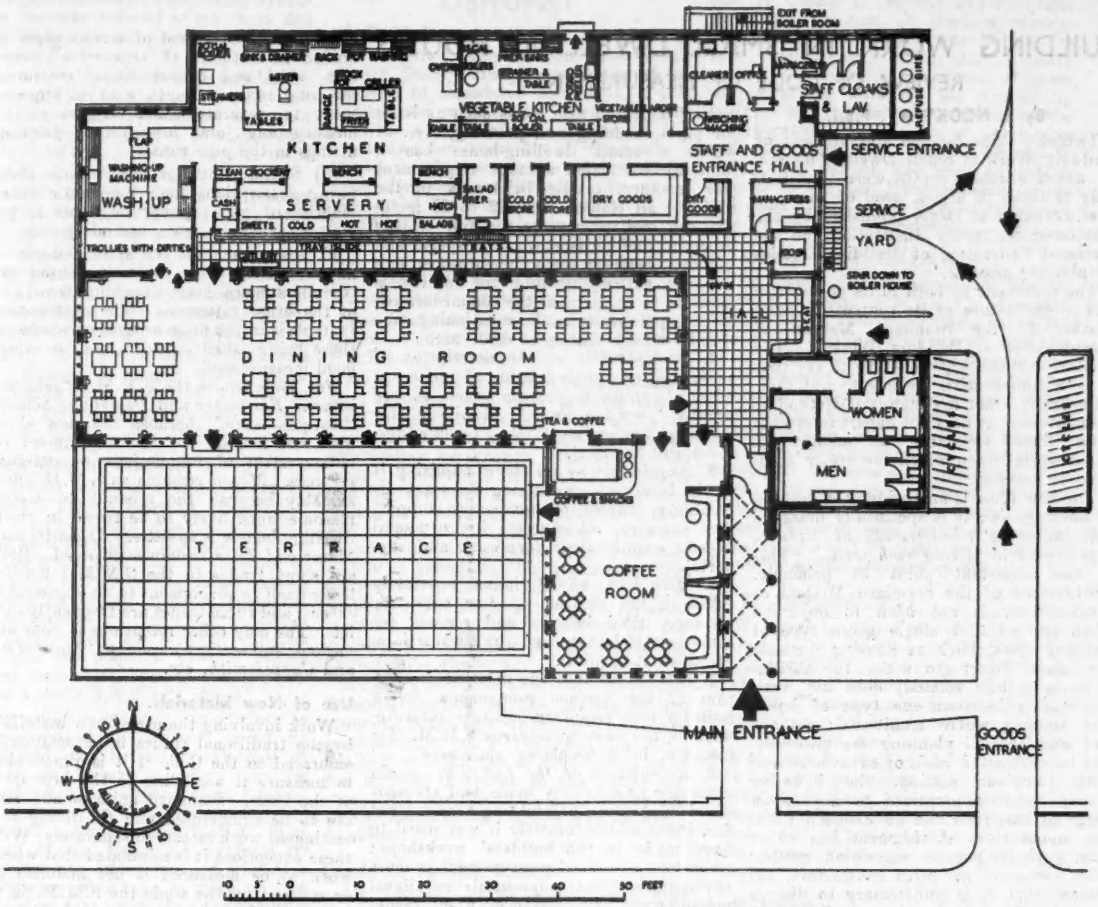
PARKING FACILITIES IN TOWNS

In our overcrowded cities the question of adequate parking for both public and private vehicles has become acute, and the difficulties have been summarised in a short pamphlet* issued by the British Road Federation. To put the points made in this as briefly as possible, we find that the use of vehicles is hampered and restricted through lack of provision for parking; that leaving them on traffic routes is both dangerous and uneconomic; in busy areas land is often too valuable to be so utilised, and the alternatives of low-level or multi-level parking have to be considered.

Public services on definite routes require more liberally planned stations at definite points where these serve interchanges or important centres, and for private cars it is desirable to combine parking with the normal garage services. Commercial and other distributive businesses should provide for loading and unloading within their own premises; while places of public entertainment ought to afford parking accommodation for their patrons. In some measure these practices have been adopted, but by no means to the extent that is necessary. On a smaller scale advantage should be taken of any positions where lay-bys can be formed in which vehicles can remain for a short period, such as casual calls, viewpoints, etc.

It is urged that parking space being an essential complement to road access, its provision should be the definite responsibility of governing authorities, where it has not been done by private enterprise; that all possible positions should be utilised, and that in planning or replanning schemes the car parks should be given an appropriate place. It is preferred that parking should be just as free as the use of the road, but if this is not found practicable, charges, proportional to time, can be imposed, but it is urged that they should be kept at a low figure to encourage the use of the car parks. Where an attendant is employed this would, of course, justify a charge. The use of streets carrying little traffic for this purpose is not advised, as detrimental to the quiet of the inhabitants. Other relevant points are also given consideration, and the advantage of differences in level enabling the park to be entered from the lower one is mentioned.

* "Parking Facilities in Towns." The British Road Federation, Ltd., 4a, Bloomsbury-square, W.C.1. Price 3d.



"CLOSED" DESIGN FOR A COMMUNITY RESTAURANT. By L. H. BUCKNELL, F.R.I.B.A., & RUTH ELLIS, F.R.I.B.A.

COMMUNITY RESTAURANTS IN DESIGN

THERE IS EVIDENCE THAT A NUMBER OF local authorities are considering applying for power to continue in peace time a limited service of British Restaurants, primarily for the use of industrial and commercial workers. Furthermore, the popularity of this type of restaurant makes it probable that at least some commercial caterers will open similar restaurants after the war. In 1943 the London Council of Social Service, having these possibilities in mind, carried out a detailed survey of some 40 communal restaurants in London, and subsequently issued a report on the social value and implications of such restaurants. The present publication "Community Restaurants in Design," which is in the nature of a sequel to the previous report, gives alternative plans for a "Model" Community Restaurant, together with a written report and short appendices on construction and costs.*

The plans were prepared for the council by two architects working in conjunction with the council's research group on communal feeding. They are intended to demonstrate the main principles of design which should be incorporated in the building of the restaurants, if these are to be a success. The two plans given, one of which is reproduced above, differ little in demand on ground space or estimated cost; either plan is considered suitable for use as a community restaurant only, or else in association with a wider scheme in which such a restaurant was one of the features. The plans have further been designed so that the restaurants could be one-storey buildings or, alternatively, a ground floor of a block of flats or offices.

In the dining hall much attention is paid both to the comfort of the diners and the convenience of the staff. "It is not too much to say," remark the writers, "that the restaurant is less or more attractive to the average diner in so far as he is impressed by its relative congestion or spaciousness, as he conveys his loaded tray to the table of his choice." A distance of 4 ft. 6 in. is recommended between table and table, with broad gangway space for the movement of trolleys. It is suggested that a small coffee room should be attached; in the experience of the Research Group, this gives the restaurant an agreeable "club" atmosphere, as well as enabling the dining tables to be more rapidly cleared for newcomers.

The Report states that the kitchen should be ample and says that the two guiding principles which have been followed were of ensuring free movement about the kitchen and of departmentalising the work as far as possible. The kitchen equipment has been given, in some degree, open access from all sides; and the washing-up room has been so sited that trolleys can carry away the dirty dishes without cutting across the movement of the diners.

The plans provide for a cafeteria service, but long queues are not expected, and it is believed that the queue would flow rapidly once a regular clientele were established. The kind of customer the report has in mind is the office and commercial employee and the worker in a small factory. Before the war there was insufficient provision for such workers.

The details of the plans were worked out by the architects in conjunction with members of the Research Group of the London Council of Social Service, manageresses of communal restaurants and other experts. Whilst it is realised that because of various local factors, neither plan is likely to be adopted as it stands, it is suggested that the principles should be seriously considered, and if possible followed, wherever such restaurants are built.

*Published by the London Council of Social Service, 7, Bayley-street, London, W.C.1. Price 2s. 6d. (post free).

BUILDING WORK IN SMALL DWELLING HOUSES

REVIEW OF CODE OF MEASUREMENT

By S. HOOKWAY, F.S.I.

THE new Code for the Measurement of Building Work in Small Dwelling-houses, of which advance copies were issued in July to those in urgent need of them, is now available at large, published by the Chartered Surveyors' Institution and the National Federation of Building Trades Employers, price 5s.

The document is, both in its pocket size and in the nature of its contents, a baby brother to the Standard Method of Measurement of Building Works. The briefest commentary would be to say that it is a conservative document, and that, although it is not the Standard Method of Measurement, it does not depart in essence from those standards of method of measurement upon which the major document is founded.

The new Code is an abridgment devoted to housing, and it is specifically designed "*to meet the requirements of builders experienced in pricing such work.*" This is the important point of principle. Abridgment of the Standard Method of Measurement is not open to objection when applied to a single given type of building work, such as housing, because the labour factor (to which the abridgment is mainly related) does not vary appreciably between one type of house and another where traditional methods and standardised planning are observed, and hence, on the basis of experience and with judicious costing, the inclusive labour factor appropriate to any given usage of materials can be assessed without undue risk. Abridgment has never been a wholly popular suggestion, neither with surveyors nor with contractors, for reasons that it is unnecessary to discuss here, but it must be recognised that an *ad hoc* abridgment, such as this is, has advantages beyond those merely concerned with the stress of these present times. The fundamental principle of quantity surveying, however, must always be maintained—"fully, completely and accurately to represent the work to be contracted for." In this instance the skill of the estimator is called upon to a greater degree, inasmuch as his experience has to provide part of that requirement expressed in the word *fully*.

The Scope of the Abridgment.

It will assist in an appreciation of the scope of the abridgment if one attempts to indicate "how the thing was done."

The various devices by which the Standard Method of Measurement has been pruned may be broadly classified under the following ten headings.

1. *Omission from the S.M.M.* of all sections or clauses not likely to be required for small dwelling-houses, with the proviso expressly stated that, if there is work to be measured that is not included in the Code, then the S.M.M. shall apply (for instance, patent fire-resisting floors, flats, etc.). This category probably accounts for the major reduction so far as the size of the document is concerned.

2. *Amalgamation of classifications* where the S.M.M. is particularly analytical (for instance, the S.M.M. has specific items for reinforcement in floors, roofs, walls, beams, columns, and each separate member of a concrete structure; the new Code has two classifications only—*floors, roofs and walls* and *beams, columns, etc.*).

3. *Telescoping into the pricing* of bulk items those labours of which the measured value chiefly represents a stoppage for setting out; and also items such as holes for pipes, bedding and pointing, etc., of which a small dwelling-house has a limitedly calculable average requirement (for instance, taking Brickwork in the S.M.M., all clauses from 22 to 33 inclusive are omitted, except for fair cutting to squint and birdsmouth, and splays and rounded angles); such labours are not, however, entirely ignored, for an item is required to be given at the commencement of the appropriate trade, mentioning each specific labour that is so dealt with.

4. *Incorporation in the description* of superficial or running items of numerical labours applicable thereto, such as are usually "written short" in billing (for instance, angles, stops, etc., to skirtings, coves and the like).

5. *Acquisition* by all items requiring it of the formwork or centring necessary for moulding, casing or temporary support (for instance, all concrete items poured *in situ* acquire their formwork and supports).

6. *Doubling up* of items separately taken in the S.M.M. (a few only, for instance, tiled hearths and screeds for same; metal lathing and the plaster item to which it applies).

7. *Integration* into one detailed description of the various components for a built-up unit requiring separate measurement in the more punctilious S.M.M. (for instance, brick fireplaces, staircases).

8. *Recognition of the fact* that certain units are now factory made and standardised in the type of building here catered for, items which formerly it was usual to have made in the builders' workshops; wherefore numerical measurement is more appropriate than superficial or lineal measurement (for instance, wood sashes and doors, and frames and linings to both are enumerated in the Code).

9. *Simplification* of such complex sections in the S.M.M. as internal plumbing. This is effected in two ways :—

(a) The measurement of service pipes is unified in method; all types—lead, wrot iron, steel and copper—being measured the total running length with no requirement to separate short lengths or to measure any joint branches or jointing fittings in the pipe runs.

(b) Sanitary fittings absorb into their fixing descriptions their immediate short lengths of pipe connection, and traps, wastes, overflows, etc., and all joints.

10. *Amendment* of the specific mode of measurement. This probably caused the compilers more heart-searching than any of the other categories. The outstanding example is in the measurement of windows, these being taken overall glass, in superficial measurement.

For some trades the S.M.M. is retained intact. *Excavator* and *Drainlayer* remain "as you were," because the new Code does not include for the abridgment of measurement of foundations or external services. *Mason* remains as S.M.M., presumably because the amount of stonemason's work likely to be found in small dwelling-houses is so little. *Asphalter* and *Slater and Tiler* remain unchanged. Both are short trades in the S.M.M.; neither lends itself to abridgment to an appreciable extent, and these trades are frequently sublet. The only other retentions *in toto* are various sub-sections, such as *Zincworker* and *Coppersmith*, etc.

Use of New Materials.

Work involving the use of new materials by the traditional trades is automatically embraced to the Code if it is practicable to measure it according to the principles of the Code. Standard units of any sort are to be enumerated and the fixing and contingent work measured separately. With these exceptions it is stipulated that where work to be measured is not included in or covered by the Code the S.M.M. is to be brought in to augment the Code.

As an indication of some of the alterations in units of measurement that will have to be appreciated we might pick out one or two noteworthy items from each trade such as have not been touched on above.

Concretor. Formwork is to be described and included with the item to which it relates. This is reflected in the amended mode of measurement of curbs, piers, columns, struts, bearers and the like now being required in *feet run* instead of in *feet cube* as in the S.M.M.

Bricklayer. Nine-inch walls come in for separate measurement, whether faced or not.

The alternative method of measuring hollow walls in separate leaves is omitted.

Arches in facings are to be given in *feet run* or *enumerated*, instead of in *feet super*, as in the S.M.M.

Carpenter. Structural timber is to be "grouped according to the purpose of its use." Thus, all roof timbers may go into one item provided that each member and scantling is separately mentioned.

Joiner. A new item appears, the usefulness of which is not readily apparent—namely : "All work required to be primed, knotted and stopped before delivery shall be so described." In view of the fact that this may lead to an additional sub-section to the one billed in *Painter*, the value of this particularisation appears somewhat problematical.

Staircases now being described in detail and enumerated, one might consider that a requirement to provide a sketch showing layout in plan would save a lot of trouble in many cases.

An example of wholesale abridgment occurs where the S.M.M. group of clauses

WOOD
BLOCK
FLOORING
is now
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Joiner 8 to 18 inclusive, comprising 55 sub-clauses, becomes reduced to six short and simple clauses in the Code, without any sub-clauses.

Plasterer. Measurement superficial in narrow widths is omitted in the Code and all reveals up to 12 in. wide are measured run. Only rounded angles, or angles executed in a different material, require to be measured.

Plumber. External. Running labours included in clauses 1 (f) and (h) of the S.M.M. are thrown on to the *weight item* in the Code, but numerical items in clause 1 (g) remain to be detailed.

Internal. Size, length, and method of fixing put a finish to all required measurement of service piping in the Code.

Painter. Painting on doors, frames and window linings, including their architraves, comes into the Code within the scope of a general category, "not exceeding 12 in." running measurement.

The New Code in Practice.

It has been shown in actual practice by measuring a typical house of Ministry of Works Standard, both in accordance with the Standard Method of Measurement and under the new Code, that the number of items in the bill under the latter system is reduced by 45 per cent. as compared with the former for work above damp-proof course. This is a very worth-while result from the point of view of saving technical man-hours, both in the quantity surveyor's and the builder's offices.

A suggestion is made in the Preface to the Code that bills prepared under its rules should include full descriptions of materials, and where necessary describe items separately as regards their location in the work, so as to render unnecessary the issue of a separate specification. The first part of the suggestion presents no novelty, but the latter idea, if pushed a little further, would to a more or less serious extent take away from the quantity surveyor part of what he has gained on the time factor and would begin again to pile up the number of billed items which it has been the object of the Code to reduce. Rather would it seem proper, and certainly more in keeping with the division of duties, that the drawings should be so annotated as to render a specification unnecessary with the quantity surveyor's compliance with regard to description of materials.

A final word as to the use of the Code by beginners to quantity surveying. Will not the tendency be to commence with the smaller and more compact Code and proceed later to the Standard Method? Will not the novice therefore be tempted to run before he has learned to walk? But that is no criticism of the new Code; merely a word in (or is it out of?) due season.

Public Lighting Engineers.

A successful conference was held by the Association of Public Lighting Engineers at Glasgow from September 11-13, under the presidency of Mr. E. J. Stewart, M.A., B.Sc. (Inspector of Lighting, Glasgow). A series of interesting papers was read, among them "Glasgow's Street Lighting," by Mr. J. M. Ward; "The Lighting of Bends, Junctions and Roundabouts," by Mr. Francis F. Middleton; "Engineering Principles in Street Lighting Lantern Design," by Messrs. J. G. Christopher and T. S. Smyth; and "The Commercial Aspect of Public Lighting," by Mr. E. S. Harris. Copies of these papers may be obtained from Mr. H. G. Davis, Secretary to the Association, 68, Victoria-street, S.W.1.

OBITUARY

W. O. Hudson.

We regret to announce the death of Mr. Walter Oakley Hudson, secretary of the Institute of Registered Architects, a post he took over in 1940 after serving for some years as a member of the Council. For more than ten years Mr. Hudson was a valued member and critic of the Architects' Registration Council. He was a member of the Discipline Committee, the Board of Architectural Education and the Finance and General Purposes Committee. For a long period he acted as unofficial Chairman of the representatives of "Unattached" architects.

The Chairman of the Architects' Registration Council (Mr. Sydney Tatchell, F.R.I.B.A.), writes :—

By the death of Walter Oakley Hudson at a comparatively early age the Architects' Registration Council—of which he was a member for many years—has lost an outstanding personality. His unwavering sense of justice and fair dealing characterised his approach to the many problems calling for solution by both Committees and Council. He moreover possessed those all too rare qualities of restraint and clarity in submitting his arguments. His fearlessness in debate, his concern for the prestige of the profession and his manifest sincerity never failed to impress his colleagues, who held him in high regard and indeed with affection.

Hudson's activities extended beyond professional matters to the welfare of the community amongst whom he lived. The establishment of a Pre-Natal Clinic at Wallington is but one of many examples of his untiring devotion to the public service. His place both in local affairs and on the Registration Council will not easily be filled.

Gerald C. Speidel, F.I.A.S.

Mr. Gerald Charles Speidel, who died in London, on September 18, at the early age of 40, was senior partner in the firm of Gerald C. Speidel and Partners, quantity surveyors, of Berkeley-square, W., and throughout the war he and his firm carried out, under Air Ministry authority, a considerable amount of quantity surveying work for the aircraft industry. Mr. Speidel was a Fellow of the Incorporated Association of Architects and Surveyors and also A.I.Struct.E. Before the war he had been an L.C.C. lecturer at the East Ham technical college and some of his pupils have attained notable success in the profession.

J. Jameson Green, F.R.I.B.A.

The death has occurred of Mr. J. Jameson Green, F.R.I.B.A., Heswall, Wirral, in his 73rd year. Articled to the late T. C. Clarke, of Liverpool, and also to C. O. Ellison and Co., of the same city, he commenced practice in 1894. He was successful in several competitions, notably for Emanuel Church, Southport; Central Hall, Liverpool; and in the 1915 competition for Southend-on-Sea Tuberculosis Sanatoria. He designed numerous Wesleyan churches and schools, Epworth College, North Wales, and many private houses. He had been valuer to the War Department, and in 1920 was Regional Inspector to the Ministry of Health.

W. G. Thompson, F.S.I.

We regret to record the death on September 9, at Durban, of Mr. W. G. Thompson, F.S.I., son of the late William Thompson, and senior partner of the firm of W. G. Thompson and Martin, Durban, South Africa. He was 65. After a period of training and work in London he left this country for South Africa in 1909 to take up an appointment with the Public Works Department, Pretoria, and later as Quantity Surveyor to South African Railways, which appointment he surrendered about thirty years ago to practise privately.

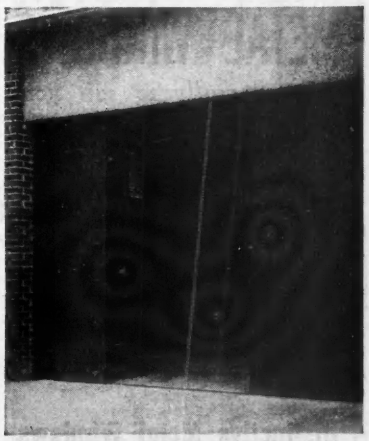
A. H. Jefferiss.

We regret to announce the death of Mr. Arthur H. Jefferiss, chairman and director of Jefferiss (Camberwell), Ltd., parquetry and wood block flooring contractors, on September 1. He entered the business in 1890, and is succeeded by his son, Mr. D. H. Jefferiss, and Mr. A. H. Vincent.

Gas Incinerators.

The Press Officer (Miss J. Monypenny) of the British Gas Council writes to point out that in our report (June 8) of Miss Muriel Gee's lecture to the Housing Centre on the subject of converting old houses into new flats, the chairman, Miss Adburgham, asked about domestic incinerators, stating that no house over 25 years old was properly equipped with an incinerator, and suggesting that the gas and electrical industries should be urged to produce such an appliance. Miss Monypenny writes: "I am sure it would be of interest to your readers to know that two sizes of domestic incinerators—the Davis "Burn-all" and the Sugg—were in common use before the war, manufactured and supplied by the gas industry. There was never, of course, a very big domestic demand for these gas incinerators, because a large number of urban dwellers had coke boilers in their houses in which all rubbish was burned, and, of course, as far as the country is concerned, the burning of rubbish is an easy matter. Most of the users of these incinerators were business premises. They were very easy to fix and keep clean, and were completely odourless in operation; they performed their duties with safety, efficiency, speed and economy, and any kind of garbage, wet or dry, could be burned rapidly.

KING SLIDING DOOR GEAR



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REQUISITIONED LAND AND WAR WORKS ACT, 1945—2

By W. T. CRESWELL, K.C.

PART I.

The War Works Commission.

As stated in our previous article, which was introductory to this series, the Commission dealing with this Act has now been appointed by His Majesty. No member of the House of Commons can be a member of the Commission.

Sec. 2. Lays down the procedure to be followed before any land is requisitioned. The Commission has power to cause all necessary inquiries to be made, and to use its discretion as to giving every or any interested person opportunities of making oral or written representations as to his objections to the acquisition, or his alleged suffering thereby. Also it may cause a local inquiry to be held, and control matters relating to the summoning of witnesses thereto, and the production of documents thereat, also the costs thereof. Sec. 290 (2) b (5) of the Local Government Act, 1933, is to apply in the same way as it applies to a local inquiry, but all references to a department reading as references to the Commission. In brief, these provisions are as follows :—

Any person may be summoned as a witness and examined on oath or after having subscribed to a declaration. When a witness is required to travel more than 10 miles from his place of residence his expenses must be paid. Any person neglecting to attend, or refusing to produce documents, is liable to a fine and imprisonment. Costs incurred by the Commission are recoverable, and the Commission may make orders as to costs but no local authority is to be ordered to pay costs unless it is a party to the inquiry; and for the purposes of sub-section 5 the Minister making the proposals which the inquiry is considering is a party to the inquiry, and costs thereof may be ordered as against him.

Sec. 3. The Commission can be dissolved when it has no further matters to deal with.

PART II.

New Temporary Powers of Acquisition of Land by Minister.

Sec. 4. Ministers who have power to acquire land under "the Defence Acts" (the Minister of War Transport, the Postmaster General and the Minister of Works) can acquire any land on which government war work has been done, or which has been damaged by government war use, if such work or damage has occurred during the war period by, or by arrangement with, a Minister, or under his emergency powers. "The Defence Acts" means the Defence Acts of 1842 to 1938, as amended, extended or applied by or under any enactment, including this (1945) Act, and Sec. 7 of the Land's Clauses Consolidation Acts Amendment Act, 1860, and Sec. 7 of the Militia (Land and Buildings) Act, 1873, and in the case of the Admiralty, the provisions of Sections 9 to 19 of the Admiralty Land and Works Act, 1864.

Sec. 5 gives power to the Crown to acquire government war works on such land which have been constructed in the course of government war work, if they were constructed wholly or partly at the expense of the Crown, or some other person having no interest (or a limited interest) in the land. This power extends to the site of the works and to any contiguous or adjacent land if in the opinion of the Minister such land must be held with the site of the works in order that they may be properly utilised and maintained.

It is left to the Minister to determine (a) whether the *value* of the works ought, on the acquisition of the land, to be preserved either for the Crown, or for any other person, for the carrying on of the trade or business for which the original expense was incurred. (b) Whether the right to use the works ought by the acquisition of the land to be preserved or secured either for the Crown or for some other person having no interest or a limited interest in the land. (c) Whether the right to determine the use to which the works have been put ought, by the acquisition of the land, to be secured for the Crown.

Sec. 6. Whether there are government war works on the land or not, land which has been damaged by government use can also be acquired when the value of the land has been diminished by such use if, in the opinion of the Minister, it is desirable in the public interest that the land should be dealt with in a particular manner with a view to total or partial rehabilitation of population, and if it is only likely to be so dealt with if it is acquired. This power of acquisition is to extend not only to the land the value of which has been diminished, but also to any contiguous or adjacent land which, in the opinion of the Minister, must also be held with the land of diminished value, in order that the land may be properly dealt with.

Sec. 7. Easements and other rights existing over any other land can be acquired if they are essential to the full enjoyment of the land acquired. Also if there are government works on the land acquired the Minister may discharge or modify them and likewise deal with any covenants as to building thereon, in order that he may retain the works and ensure that these covenants do not prevent or impede their reasonable user of the works for public or private purposes as intended. Similarly the Minister can acquire any easements or rights over any other land if they are essential to the intended use of land acquired.

Compensation is payable when such discharge or modification of covenants and easements, above outlined, lessens the value of the interest of any person entitled to the benefit of the restriction; and the amount of such compensation is determined under the Acquisition of Land (Assessment of Compensation) Act, 1919 or any amendment thereof.

(To be continued.)

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SOCIETIES & INSTITUTIONS

R.I.B.A.

The Final Examination, July, 1945.

THE R.I.B.A. Final Examination was held in London, Edinburgh and Belfast from July 4-12. Of the 77 candidates examined, 48 passed and 29 were relegated.

The successful candidates are :—

WHOLE EXAMINATION : P. L. Hansen Bay (*Distinction in Thesis*), C. L. Bird, E. Brittlebank, *J. C. Brock, A. R. Crisp, W. H. Cutmore, *T. J. W. Davison, E. G. Elliott, B. Ferguson, *H. R. Hayhoe, W. Jack, C. E. Jacob, C. Johnston, G. A. Kelly, W. P. Le Clerc, *L. E. Luck, G. S. Melland, W. E. Mills, A. L. Moon, C. P. Moon, *S. Morrison, C. J. Phillips, R. Rosner, *C. F. Scott, J. Scott, H. J. G. Stantiall, S. H. Statham, †L. P. Williams, D. F. Wrigley (*Distinction in Thesis*).

PART 1 ONLY : D. W. Bell, N. E. Campbell, R. W. Clark, Mrs. Margaret N. Downie, L. C. Edwards, E. Erber, J. R. Findlay, M. Hardstaff, S. D. Hardy, R. J. Husband, †C. A. Kitchen, A. D. Knapton, P. J. Needes, †D. Patterson, N. O. Sakkides, J. Smith, F. J. Tingey, A. Travis, and †F. W. Young.

Special Final Examination, July, 1945.

The Special Final Examination was held in London, Edinburgh and Belfast from July 4-11, 1945. Of the 65 candidates examined, 31 (12 in Part I only) passed as follows :—

WHOLE EXAMINATION : M. Bell, J. J. Bevan, J. B. Bone, D. W. K. Dawson, J. Gray, J. K. Greed, J. L. Hazell, S. Hutchings, A. Le Sueur, J. S. McGavin, C. T. MacLynn, A. Neill, H. Sanger, G. E. Skeats, H. P. Smith, I. J. J. Vigour, W. D. White, A. T. Wright and G. Yarwood.

PART 1 ONLY : G. L. Bowden, G. L. Boyle, J. A. Claydon, H. D. Dawson, R. Frankel, D. R. Hall, H. Hartley, F. H. J. Hermann, A. S. Ingham, H. E. Jenner, F. W. Jones and S. G. Page.

Professional Practice.

The examination in professional practice for students of schools of architecture recognised for exemption from the R.I.B.A. Final Examination was held in London and Edinburgh on July 10-12, 1945. Three candidates were examined and passed as follows :—

D. W. Jackson, J. E. Mitchell and J. Rowbotham.

THE INSTITUTE OF QUANTITY SURVEYORS.

The results of the preliminary, intermediate and final examinations held at the London and Manchester Universities in March are now published. In the Final Examination Mr. J. F. Farrow (South Harrow) received a special mention, and the following passed the Direct Membership Examination :—

A. K. Douglas, Poole; R. J. Hands, Coventry; J. J. Hayes, Worcester; F. C. Howard, Enfield; E. R. Jewell, Sutton; W. Neal, Luton and E. Weavell (special mention), Stoke-on-Trent.

Four candidates part-passed.

I.C.W.A.

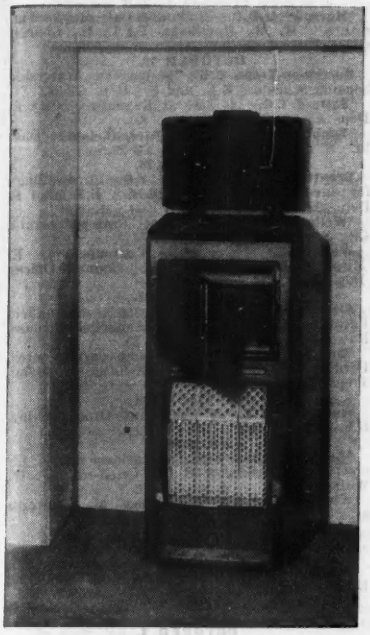
Examinations Results.

The pass list of the Incorporated Clerks of Works Association of Great Britain's Final Examination for Clerks of Works held at the Royal Institute of British Architects on September 5-8, shows the following successful candidates in order of merit :

B. Oddie, Clitheroe; J. T. Pett, Hebden Bridge, and H. J. White, Coulsdon (equal); R. S. Sevlour, Basingstoke; A. Bunting, Chippenham; W. S. Hills, Flamstead; H. Mohin, Wirral, and G. E. Styles, Mitcham (equal); E. Ellis, West Malvern; H. A. Brierley, Croxley Green; C. Harnott, Tarporley; and H. W. Smith, Glasgow.

In addition, nine candidates part-passed in the final and 16 were successful in the preliminary examination, headed by J. L. Fisk, of Newport, Mon.

* Subject to approval of Thesis † Subject to approval of remaining testimonies of study.



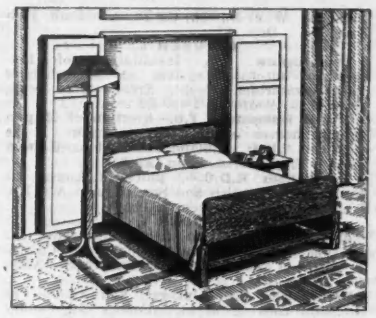
This cabinet gas-fire, fitted with a miniature cooker with boiling burner above, has been produced by Radiation, Ltd. It will shortly be available to the public. The overall height, width and depth, are 31 ins., 15½ ins., and 13½ ins. respectively.

A DISAPPEARING BED

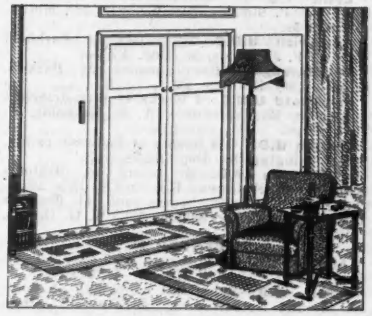
THE "Put-u-up" settee-bed shown in the accompanying illustrations is designed for single-room apartments, as it can be closed up into a recess, leaving the floor clear. When closed, there is nothing to show that there is a bed in the room, the two doors having the appearance of cupboard or wardrobe doors. The bed is easily installed, being only screwed to the floor of the recess. This recess is 1 ft. 5 in. back to front, 4 ft. 6 in. wide for a 4-ft. bed, and 6 ft. 9in. high. To bring the bed into use it is only necessary to open the doors, take hold of the upper portion of the bed and lower it to the floor. It is then a bed of normal height, complete with a spring-filled mattress. The pillows and bedding can be tucked round the mattress and all closed into the recess, thus saving the necessity of making the bed up when required. The mechanism is so well balanced that any adult, by lifting on the foot end, can close it into the recess. The bed can be made in a single size with corresponding reduction in the width of the recess. It is manufactured by Messrs. Greaves & Thomas, Ltd., of Northwold-road, Clapton, E.5.

A Correction.

By an unfortunate mechanical error the telephone numbers of Messrs. Roberts, Adlard and Co., Ltd., were transposed in recent advertisements. The telephone numbers should have read: for Central Roofing, Tugela-road, Croydon, Surrey, 'phone, Thornton Heath 4271; and for the head office and showrooms, Tweedy-road, Bromley, Kent, Ravensbourne 3421.



THE BED UNFOLDED.



THE BED AS FOLDED INTO RECESS.

BOOK REVIEWS

More Advanced Quantity Surveying. By ARTHUR J. WILLIS, F.S.I. London: Crosby, Lockwood & Son, Ltd. Price 25s. net. Third Edition.

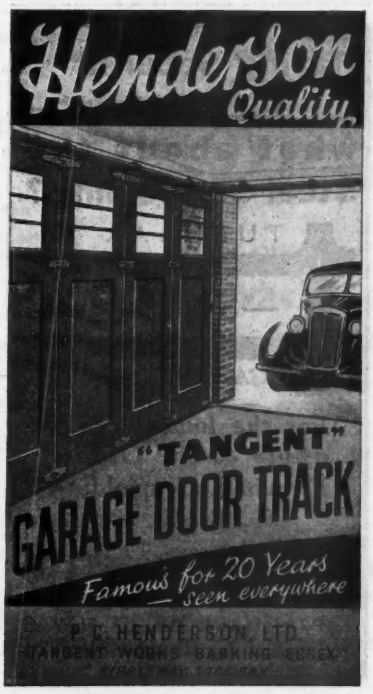
This well-known work, which gives examples of taking off to the standard required for the Final Examination (Quantities Sub-division) of the Chartered Surveyors' Institution, has now reached its third edition. This is substantially the same as the earlier editions.

The examples are selected to include the more complicated and less ordinary types of work in the various trades. They are based on carefully detailed drawings (selected from suitable buildings and past examination questions) drawn to a large scale so that dimensions can be scaled off. The complete taking off is given, together with notes which give the requirements of the Standard Method of Measurement and make it possible for the examples to be followed easily. It is this method of careful analysis and systematic taking off that makes the book so valuable as a text-book for students and as a reference book for practising surveyors.

The Rehousing of Britain. By JOHN MADGE, in "The Target for Tomorrow" series. The Pilot Press, Ltd. Price 4s. 6d. net.

This book is a survey of the influences that will affect the satisfactory provision of houses. Its arguments lead to the conclusions that research must be conducted into the materials and the technique of building in all its aspects; that there should be an emphasis on speed in supplying temporary houses; that legislation for permanent building should be on the basis of performance and amenity standards, eliminating restrictive bye-laws that have prohibited real advances; the Government building labour trade policy should provide for changes in building technique; the Government should assume responsibility for providing homes for poor families; and that all reconstruction should be within the framework of a strongly administered national development pattern.

These are conclusions that will find a large measure of agreement, and the arguments that lead to them will be of special interest to the building trade which will be required to implement any Government decisions in the matter. A. B. W.



THE SCOTTISH BUILDER

NEW BUILDINGS

GLASGOW.—Corporation to erect houses and shops at Pollock Housing estate, for which the architect is Ronald Bradbury, Housing Director, 20, Trongate, Glasgow.

GLASGOW.—Plans prepared for alterations and additions at 60 Bishop-st., for which the architects are Frank Burnet & Boston, 180, Hope-st., Glasgow.—Plans in hand for alterations and additions at Dobbie's Loan, for which the architects are Watson, Salmond & Gray, 111, Union-st., Glasgow.

LANARKSHIRE.—Plans in hand for extensions, etc., W. J. C. Watts (Meats), Ltd., Shettleston factory, for which the architect is S. E. Duncan, 20, Frederick-st., Edinburgh.

PAISLEY.—Corporation to erect 58 houses at Gallowhill Housing estate.

TROON.—Corporation to erect 40 houses at Muirhead.

FUTURE CONSTRUCTION

CONTRACTS OPEN

For some contracts still open, but not included in this list, see previous issues. Those with an asterisk are advertised in this number. The dates at the heads of paragraphs are those for the submission of tenders; a dagger (†) denotes closing date for applications; the name and address at the end refer to the person from whom particulars may be obtained.

BUILDING

OCTOBER 3.

***Farnborough U.D.C.**—40 pairs semi-detached houses, and 5 blocks of 4 houses, Hawley-la. housing scheme. E. and S. Dep. £5.

Manchester T.C.—Alterations at Riverside and Menyden for kitchen scullery at Dr. Garrett Memorial Home, Conway. City A. Dep. £1 1s.

†Old Fletton U.D.C.—18 houses at Coneygree-rd., Stanground. A. W. and H. J. Wilson (FF.), Cumbergate, Peterborough. Dep. £2 2s.

†***Stoke-on-Trent T.C.**—78 houses (4 contracts) at Chell Heath estate. Chief A., City Architectural Dept., Kingsway-chbrs., Kingsway, Stoke-on-Trent. Dep. £2 Treasury notes. Tenders by October 19.

St. Pancras B.C.—Reinstatement of 3 working-class flats at Chester-rd. T.C. Dep. £2 2s.

†***Stoke-on-Trent T.C.**—194 houses (9 contracts) at Anchor-rd. estate, Longton. Chief A., City Architectural Dept., Kingsway-chbrs., Kingsway, Stoke-on-Trent. Dep. £2 Treasury notes. Tenders by October 19.

OCTOBER 4.

Mitford and Launditch R.D.C.—36 houses i- 7

parishes. W. J. Barton, C., The Guildhall, East Dereham. Dep. £1.

OCTOBER 5.

Bedfordshire C.C.—Installation of low-pressure hot-water system at Mogerhanger Park Sanatorium. County Architectural Dept., Shire Hall, Bedford. Dep. £2 2s.

Hemel Hempstead T.C.—Erection of 50 permanent houses or of groups of ten. L. de Soissons, A.R.A., Midland Bank-chbrs., Welwyn Garden City, Herts. Dep. £2 2s.

Wokingham R.D.C.—2 pairs of houses at Wargrave. C. Smith and Son (F. and A.), 164, Friar-st., Reading. Dep. £1 1s.

OCTOBER 6.

Aberdeen C.C.—Work in various trades for erection of 50 houses on various sites. County A., Office, County-bldgs., 22, Union-terr., Aberdeen.

Derbyshire E.C.—Garage and store at Breaston cooking depot. County A., County Offices, St. Mary's-gate, Derby. Dep. £2 2s.

Heywood T.C.—(a) 26 houses in pairs; (b) 24 houses in 6 blocks of 4 at Gooden Farm site. B.S. Dep. £2 2s.

Leslie T.C.—16 three-apartment houses at High-st. P. Sinclair, 305, Wellesley-rd., Methil. Dep. £1 1s.

Northwich U.D.C.—26 houses at Parkfield estate. F. J. James, S. Dep. £2 2s.

Peterborough T.C.—10 houses at Park-la. estate. City E. Dep. £2.

Portishead U.D.C.—4 blocks of semi-detached houses at Burlington-rd. A. S. Reynolds, C. Dep. £2 2s.

Seaham U.D.C.—74 houses at Parkside estate. J. Worthington, S. Dep. £2 2s.

†***Southgate B.C.**—50 houses at Bruton's Land, Barrowell Green. B.E. and S. Dep. £2 2s.

Sheffield T.C.—168 houses and 44 flats at Parson Cross estate, Scheme 4/2. W. G. Davies, City A. Dep. £2.

OCTOBER 8.

Aldridge U.D.C.—46 houses on 2 sites. T. H. Partridge, C., Council House. Dep. £2 2s.

Bootle C.B.—Rebuilding 11 houses at Fernhill-rd. and Netherton-rd. B.E. and S. Dep. £1 1s.

Chelmsford R.D.C.—6 pairs of houses and other works at Hunts-dr., Writtle. Estates S. (Room 25). Dep. £2.

Diss U.D.C.—10 houses at Frenze-rd. C. R. Williamson, C. Dep. £1 1s.

Durham E.C.—Alterations and additions to Junior Technical school, Stockton-on-Tees. F. Willey (F.), 34, Old Elvet, Durham.

†***Manchester T.C.**—(1) 170 residential flats at Hulme Clearance Area; (2) 16 houses on various sites. Housing Dept., Town Hall. Dep. £2 2s. (Tenders by October 22.)

†***Morecambe and Heysham T.C.**—26 houses at Hestham Hill estate. B.S. Dep. £2 2s.

Tynemouth T.C.—132 houses at 4 sites. D. M. O'Herlihy, B.E., 19-20, Howard-st., North Shields. Dep. £2 2s.

OCTOBER 9.

Easington R.D.C.—522 houses in 8 districts. E. and S. Dep. £1 1s. for each site.

Loughborough T.C.—24 houses (in 2 contracts) at Manor-dr. Allcock and Grieves (F. and L.), 11, Leicester-rd., Loughborough. Dep. £2 2s.

*†**Shropshire E.C.**—Reinstatement of Whitchurch Modern school, Broughall. A. G. Chant, County A., 5, Belmont, Shrewsbury. Dep. £2 2s. Tenders by October 23.

OCTOBER 10.

Arnold U.D.C.—45 houses at Ravenswood estate and 22 at Coppice estate. E. and S. Dep. £3.

Brierfield U.D.C.—54 houses at Mansfield estate. E. and S. Dep. £2.

Dehen R.D.C.—4 houses at Ufford. S., Council Offices, Melton Hill, Woodbridge.

Leeds T.C.—Conversion of 26, Gt. George-st. into juvenile court and probation offices. W. S. Cameron, City E.

Rugby R.D.C.—16 houses on 3 sites. S., 24, Warwick-st., Rugby. Dep. £2 2s.

Warsop U.D.C.—20 houses at Carr-la. J. W. Shooter, architect, Town Hall. Dep. £2.

West Bromwich C.B.—Rebuilding 4 houses. B.E. and S. Dep. £1 1s.

OCTOBER 11.

Newmarket R.D.C.—34 houses and 8 bungalows on various sites. Architect, Council Offices, Park-la. Dep. (cheque only) £1 1s.

Oldham C.B.—22 houses at Stoneleigh No. 2 housing scheme and 18 houses at Strinesdal housing scheme. B.E. and S. Dep. £2 2s.

Stourport-on-Severn U.D.C.—24 houses at Walshes Farm. Pritchard, Godwin and Clist, Bank-bldgs., Kidderminster. Dep. £1 1s.

***Wakefield T.C.**—70 houses at Flanshaw estate. City E. Dep. £2 2s.

OCTOBER 12.

†***Hendon T.C.**—47 houses and completion of 4 houses, Contract Works No. 545. B.E. and S. Dep. £3 3s.

Leamington Spa T.C.—20 houses at Bury-rd. B.E. and S. Dep. £2 2s.

S. Westmorland C.C.—8 permanent houses, Holme. E. and S., 30, Lowther-st., Kendal. Dep. £2 2s.

INCLEMENT WEATHER.

Guaranteed Wage Changes.

The N.J.C. for the Building Industry drews the attention of building employers and operatives to the fact that the new National Working Rules 2A and 2B come into operation as from the beginning of the pay-week next following after October 1.

These are the rules already published dealing with termination of employment and guaranteed payment for time lost through inclement weather. The rules were printed in *The Builder* for April 20 last.

"THE BUILDER" PRICES.

Cement in Non-returnable Jute Sacks.

With the rescission of the Control of Cement Sacks (No. 1) Order, 1942, Portland cement can now be supplied in non-returnable jute sacks, on the same basis as paper bags—*i.e.*, 7s. net per ton of cement. Users may, therefore, be receiving a certain proportion of their deliveries in jute. The empty sacks can be disposed of in any way desired, but should not be returned to the cement manufacturers, as they are no longer permitted to make any allowance for them.

OCTOBER 13.

Llantrisant and Llantwit Fardre R.D.C.—40 houses and incidental work at 3 sites. T. J. Hopkins, E. and S., County Offices, Pontyclun, Glam. Dep. £2 2s.

OCTOBER 15.

Brackley R.D.C.—16 houses on 2 sites (separate contracts). Raymond White, Ceely House, Aylesbury.

Chipping Norton R.D.C.—38 houses on 5 sites. T. Rayson, 35, Beaumont-st., Oxford.

***Durham T.C.**—50 houses at Sunderland-rd.—Kepier-la. site. City E. and Architect. Dep. £2 2s.

Haverhill U.D.C.—10 houses at Helions Park site. D. C. Denton-Smith, 40, Regent-st., Cambridge. Dep. £3 3s.

Hitchin R.D.C.—16 houses at Codicote and 8 houses at Shephall. S., 21, Bancroft, Hitchin. Dep. £2 2s.

Newark-on-Trent T.C.—46 houses at Hawtonville. B.S. Dep. £2 2s.

Sutton-in-Ashfield U.D.C. — 38 permanent houses and 38 Duplex houses at Hardwick-la. Warner and Dean, Mansfield-rd., Sutton-in-Ashfield. Dep. £2 2s.

***Thurrock U.D.C.**—Repairs at Central Library, Grays. E. Fincham (A), The Red House, Orsett, Essex.

OCTOBER 17.

***Glanford Brigg R.D.C.**—14 houses in three districts. Buttrick and Buttrick (F. and A.), 43, Oswald-rd., Scunthorpe. Dep £2.

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***Harrow U.D.C.**—72 houses at Rayners-la. estate. H. W. Rackham, F.S.I., S., Council Offices. Dep. £3 3s.

OCTOBER 19.

Burton-on-Trent C.B.—190 houses, Waterside housing scheme. B.E. and S. Dep. £2 2s.

***Salford T.C.**—144 flats at Regent-rd. City E. Dep. £5 5s.

***Tonbridge U.D.C.**—53 houses at Lodge Oak-la. S. J. Thorne, C. Dep. £2 2s.

OCTOBER 20.

Brentford and Chiswick T.C.—10 dwellings for aged persons at Clifden-rd. B.E. and S. Dep. £2 2s.

***Wells T.C.**—54 houses at Bath-rd. estate. City S. Dep. £2 2s.

Wells T.C.—54 houses in 4 groups. G. E. Mitchell, A.R.I.B.A., City S., Council Offices. Dep. £2 2s.

OCTOBER 22.

Aireborough U.D.C.—50 houses at Springfield Farm estate. E. and S., Micklefield House, Rawdon, nr. Leeds. Dep. £2 2s.

***Drayton R.D.C.**—30 houses on various sites. Hird and Brown (A), 22, Glebe-st., Stoke-on-Trent. Dep. £2 2s.

NOVEMBER 10.

Welshpool T.C.—20 houses at Bronybuckley. B.S. Dep. £5 5s.

NO DATE.

Aberfeldy T.C.—Work in various trades for erection of 18 houses at Old Crieff-rd. W. W. Walker, T.C.

***Cheltenham T.C.**—62 houses at Lynworth estate. B.E. Dep. £5 5s.

MISCELLANEOUS.

OCTOBER 11.

Preston T.C.—Demolition of Old Municipal Baths, Saul-st. B.E. and S.

ENGINEERING

OCTOBER 3.

Cheshire C.C.—Reconstruction of Bridle Bridge. R. J. Nichols, A.M.Inst.C.E., County S. and Bridgemaster. Dep. £2 2s.

DECEMBER 14.

Eire Electricity Supply Board.—Civil construction work of hydro-electric development of River Eire, Co. Donegal. P. J. Dempsey, Secretary, 60-62, Upper Mount-st., Dublin. Dep. £21.

PAINTING, ELECTRIC LIGHTING, MATERIALS, ETC.

OCTOBER 8.

Hexham R.D.C.—External painting of 133 houses. S.

OCTOBER 10.

Leeds T.C.—External and internal painting at Cookridge-st., Hunslet, and Union-st. baths. City E.

ROADS, SEWERAGE AND WATER WORKS

OCTOBER 3.

Tettenhall U.D.C.—Provision, laying and jointing of approx. 2,000 lin. yds. of 9 in. and 6 in. dia. stoneware and iron pipe sewers, etc. Willcox, Raikes and Marshall, 33, Gt. Charles-st., Birmingham, 3. Dep. £3 3s.

OCTOBER 8.

Horsham U.D.C.—Provision and laying of approx. 492 lin. yds. of 4-in. spun-iron main, etc. C. G. Atkinson, F.S.I., Council Offices.

Upton-on-Severn R.D.C.—Provision, laying and jointing of about 3,400 lin. yds. of 12 in., 9 in. and 6 in. dia. pipe sewers, etc., and construction of sewage disposal works for bacterial treatment and incidental works, at Mental Hospital. Powick. Willcox, Raikes and Marshall, 33, Gt. Charles-st., Birmingham, 3. Dep. £5 5s.

Newport (Mon.) C.B.—Reconstruction of sewer and construction of storm water overflow, Liswerry-rd. W. C. West, A.M.Inst.C.E., B.E. Dep. £3 3s.

OCTOBER 9.

Bathavon R.D.C.—Roads and sewers at Bath housing site. C. C. Axford, S., 9, Royal-cres., Bath.

OCTOBER 22.

Stone R.D.C.—Provision, laying and jointing of approx. 2,230 lin. yds. of 12 in., 9 in., and 6 in. dia. stoneware and iron pipe sewers, etc. Willcox, Raikes and Marshall, 33, Gt. Charles-st., Birmingham 3. Dep. £3 3s.

OCTOBER 31.

Guildford R.D.C.—Completion of pumping station and construction of sewer at Send, Surrey. E. and S. Dep. £2.

PUBLIC APPOINTMENTS

*Full details of Public Appointments marked * are advertised elsewhere in this issue. Those marked † have been advertised in previous issues.*

OCTOBER 4.

†**Oxford E.C.**—Senior Assistant at School of Architecture and Building.

OCTOBER 5.

†**Holborn B.C.**—2 Technical Assistants.

†**Lindsey (Lincs) C.C.**—Senior Assistants.

OCTOBER 6.

***Bexley T.C.**—3 Assistant Architects.

†Deptford T.C.—Temporary Engineering and Surveying Assistant.

†Lincoln T.C. — Technical and Planning Assistant.

†North Riding E.C. — Technical Assistant, Grade C.

***Somerset C.C.**—Temporary Quantity Surveyors.

†Wembley B.C. — Temporary Engineering Assistant.

OCTOBER 8.

***Birmingham E.C.**—Full-time Teacher of Building Subjects.

***Brierley Hill U.D.C.**—Clerk of Works.

***Brierley Hill U.D.C.** — (a) Architectural Assistant; (b) Junior Assistant (Draughtsman).

***Bumley E.C.**—Lecturer in Building Subjects.

†East Riding C.C.—(a) 2 Senior Architectural Assistants; (b) 4 Architectural Assistants; (c) Quantity Surveyor.

***Rawmarsh U.D.C.**—Engineering Assistant.

†Uxbridge U.D.C.—Architectural Assistant.

OCTOBER 9.

Cudworth U.D.C.—Clerk of Works.

OCTOBER 10.

***Aldershot B.C.**—Quantity Surveyor.

†Kingston-upon-Hull College of Arts and Crafts.—Teacher of House Painting and Decorating and Allied Crafts.

OCTOBER 11.

***Durham C.C.**—Architectural Assistant.

OCTOBER 12.

***Exeter T.C.**—Assistant Architects.

OCTOBER 13.

***Dagenham.** — (a) Chief Town Planning Assistant; (b) Assistant Building Inspector.

†L.C.C.—Teacher of Building Subjects at South-East London Technical Institute.

OCTOBER 15.

Glasgow T.C.—Controller of New Works.

†Liverpool E.C.—(1) Teacher of Architecture; (2) Teacher of Plumbing; (3) Teacher of Vehicle Body Building.

***Melksham U.D.C.**—Clerk of Works.

***Rochdale C.B.** — Temporary Architectural Assistant.

***Ross and Whitchurch R.D.C.**—Architectural Draughtsman.

†S. Shields C.B.—Temporary Engineering Assistant.

OCTOBER 17.

***Middlesbrough E.C.**—Teacher of Building Subjects.

OCTOBER 20.

***Taunton B.C.**—Architectural Assistants.

OCTOBER 23.

***East Ham C.B.**—Temporary Town Planning Assistant.

NOVEMBER 1.

***Shrewsbury T.C.**—(1) Architectural Assistant; (2) Second Engineering Assistant; (3) Third Engineering Assistant; (4) Second Planning Assistant.

NOVEMBER 12.

***Berks C.C.**—County Architect.

NO DATE.

***Mitford and Launditch R.D.C.**—Housing Officer and Rent Collector.

***Overseas Employment.**—Inspector of Works, Nigerian Government Railways.

***Northern Polytechnic, N.7.**—Full-time and part-time (day and evening classes) Studio Masters in Architecture.

GENERAL BUILDING WORK

Ashton-under-Lyne.—H. Green, builder, proposes development of Taunton estate, Bardsley, for houses.

Atherton.—Vicar and School Managers of Parish Church Schools propose girls' modern school, at £10,000.

Billesdon.—Jelley & Son, builders, 43, Shenton-st., Leicester, propose houses at Cardinal's-walk, Scraptoft.

Brigg.—R.D.C. appointed W. H. Buttrick (L.), 43, Oswald-rd., Scunthorpe, as architect for preparation of plans for housing schemes.

Bury.—E.C. propose nursery schools.

Chesterfield.—Staveley, Builders, Ltd., Staveley, propose 200 houses at Calow. G. F. Kirk, Ltd., 172, Cathsworth-rd., propose developing site for 600 houses off Langer-la., Wingerworth. C. L. Hoole & Son, Birdholme, propose houses at Wingerworth Hall estate.

Coventry.—E.C. propose: Three prefabricated buildings and a kitchen-dining-room unit at Radford school site; reinstatement of Alleslev Municipal school.

Failsworth.—Lancashire E.C. propose school kitchen at Partington-st. school.

Gateshead.—Factory to be erected at Team Valley Trading Estate by Harris Gowns, Ltd. Plans by J. H. Natter, 36, Eldon-pl., Newcastle.

Kells (Cumberland).—Factory additions proposed for Marchon Products, Ltd.

Limehurst.—R.D.C. appointed Halliday & Agate (A. & F.), 14, John Dalton-st., Manchester 2, as architects for preparation of plans for housing estate.

Maryport.—Gulstad & Graham, Ltd., propose factory of 56,000 sq. ft. Brooks (Autos), Ltd., plan erection of factory of 14,000 sq. ft.

Oldham.—T.C. approved: Factory and office, Beehive-st., for Dadwell & Co., Ltd., C. Wild (L.), architect, 72, Bridge-st., Deansgate, Manchester.

Salterbeck (Cumberland).—Factory to be erected by West Cumberland Industrial Development Co., Ltd., on behalf of Luxan, Ltd., and also factories for Vale Carpet Co., Ltd., and Clapham Park Motors, Ltd.

Sevenoaks.—U.D.C. appointed C. J. Cable (F.), architect, for layout of Wildernesse Farm estate.

Stoke-on-Trent.—North Staffordshire Cripples' Aid Society propose extensions at Orthopædic Hospital, Hartshill, and erection of nurses' home.

Sunderland.—W. & T. R. Milburn, 17, Fawcett-st., Sunderland, prepared plans for factory at St. Mark's-road, for R. Powley & Sons, Ltd., and rebuilding of factory at Portobello-la., for Hartley, Wood & Co.

York.—M.H. approved erection of 100 permanent houses.

TENDERS

* Denotes *accepted.*
† Denotes *provisionally accepted.*
‡ Denotes *recommended for acceptance.*
§ Denotes *accepted subject to modification.*
¶ Denotes *accepted by H.M. Government departments.*

Burton Latimer.—Seven houses at George-st., for U.D.C. C. A. Borman, S.: *Loakes & Pettit, Bridge-st., Thrapston, Northants, £4,833.

Chester.—Kitchen and dining-room at Cheadle Etchells school, for C.E.C. E. M. Parkes (F.), County A.: *The Moston Brick & Building Co., Ltd., Kenyon-la., Moston, Manchester 10.

Clay Cross.—30 houses at Stretton-rd. estate, Angel Fields, for U.D.C. W. A. T. Lynam, S.: †W. A. Evans, Calow, Chesterfield (provisionally). Five tenders received.

Darlington.—Erection of 28 houses at Parkside, for T.C. E. Minors, B.E.: *Direct labour (in place of previously accepted tenders).

Durham.—Miners' canteen at Beldon Colliery: *George Henderson, East Boldon, Co. Durham (cost about £4,000).

Hensingham (Cumberland). — Erection of factory of 30,000 sq. ft., for Eugène, Ltd.: *John Laing & Sons, Carlisle.

Lichfield.—34 permanent houses at Ponesfields estate, for T.C. City E. & S.: *J. R. Deacon, Ltd., £34,113.

¶London (Air Ministry).—List of contracts to value of £500 or over for week ended September 22:—

General maintenance work: Hiles & Son, Ltd., Bristol 2; Walter Lawrence & Son, Ltd., London, E.C.2; Henry Ashton & Son, Barton-on-Humber; Henry Kent (Builders), Ltd., London, S.E.13.

Painting work: Geo. Jones & Son, London, W.8; British Insulated Callenders Cables, Ltd., London, E.C.4.

Building work: E. Taylor & Co., Ltd., Littleborough, Lancs; Holland & Hannen and Cubitts, Ltd., London, S.W.1.

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Tree-felling work: Montague L. Meyer, Ltd., London, W.C.2.

Installation work: Rigg & Remington, Ltd., London, N.W.7.

¶London (M.O.W.).—Contracts placed by M.O.W. during week ending September 13:—

London (erection of U.S.A. type temporary houses): Willesden, John Laing & Sons, Ltd., Mill Hill, N.W.7; Davis Contractors, Ltd., 352, Kilburn High-rd., N.W.6; (erection of Arcon temporary houses): Brentford & Chiswick, Thos. Lowe & Sons, Ltd., Broadway-chbrs., Hammersmith.

Aberdeen (erection of U.S.A. type temporary houses): Tullos, A. Hall & Son (Bldrs.), Ltd., 15, Mid Stoker-rd., Aberdeen.

Bucks (erection of Seco temporary houses): Slough, Wm. Hartley & Sons (Bldrs.), Westham, Slough; (erection of central kitchen): Slough, Tyson Chambers, Ltd., 194-5, Bedford-av., Slough.

Denbighshire (erection of Arcon temporary houses): Wrexham 1, Alun Edwards, Ltd., Cefn-y-Bedd, Wrexham; (erection of Arcon temporary houses): Wrexham 2, Alun Edwards, Cefn-y-Bedd, Wrexham; (erection of Arcon temporary houses): Wrexham, John Hughes, 12a, Holt-st., Wrexham.

Devon (erection of Aluminium temporary houses): Bideford, James Dennis & Son, Knowle, Braunton.

Glamorgan (erection of Arcon temporary houses): Ystradgynlais, Wm. Cowlin & Sons, Ltd., Stratton-st., Bristol 2; (erection of kitchen and dining-room): Aberdare, J. C. Jones (Bldrs.), Ltd., 37, Victoria-st., Merthyr Tydfil.

Hampshire (erection of Universal houses): Winchester, Brazier & Sons, Ltd., 303-5, Portswood-rd., Southampton.

Herefordshire (erection of Tarran temporary houses): Hereford, Miles & Sons, Ltd., Holme Lacey-rd., Hereford.

Herts (erection of Tarran temporary houses): Hatfield R.D.C., G. H. Kempster, Ltd., Beechwood-dr., Watford.

Kent (advance preparation of housing sites): Gillingham B.C.A., Bovis Public Works, Ltd., 1, Stanhope-gate, London, W.1; (erection of Seco temporary houses), Ramsgate, G. E. Wallis & Sons, Ltd., Broadmead Works, Hart-st., Maidstone.

Lancs (erection of Aluminium temporary houses): Southport, Leyland Construction Co., Ltd., Wellfield, 1, Dough-la., Leyland; (erection of Tarran temporary houses): Ashton-under-Lyne, Pochins, Ltd., Durnham-rd., Bowden; (erection of central kitchen): Hyde, H. & J. R. Bradshaw, Mill-la., Blackley, Manchester; (erection of Tarran temporary houses): Manchester, Henry Green & Sons, Ltd. (Bldrs.), Stocks House, Cheetham Hill-rd., Manchester 8.

Lincs (erection of Tarran temporary houses): Skegness U.D.C., W. Greetham, 114, Drummond-rd., Skegness; Boston, F. Hossack & Son, Ruskington, Sleaford.

Middx (erection of Seco temporary houses): Heston & Isleworth, G. T. Crouch, Ltd. (Bldrs.), 3-6, Thames-st., Kingston-on-Thames; E. J. G. Morgan, Ltd. (Bldrs.), Oxford-rd., Uxbridge.

Norfolk (erection of central kitchen): Attleborough, Bush Builders, Ltd., 56, Cromer-rd., Norwich.

Northamptonshire (advanced preparation of housing sites): Kettering B.C., Henry Martin, Ltd., Therford-st., Northampton.

Notts (erection of central kitchen), Ban-la., Nottingham, R. Whitehead, Ltd., High-st., Chitwell; (erection of Tarran temporary houses): Nottingham, Ford & Weston, Ltd., Osmaston-rd., Derby; (erection of central kitchen): Sherwood, A. H. Taylor (Notts), Ltd., 151, Attenborough-la., Attenborough, Notts.

Somersetshire (erection of Aluminium temporary houses): Portishead, John Perkins & Son, Ltd., St. Mark's-rd., Easton, Bristol 5; (conversion of air-raid shelters into office accommodation): Foxhill T.O.B., Bath, F. J. Black More & Son, Ltd., Tiverton, W. Bath.

Staffs (erection of Tarran temporary houses): Tipton, J. & W. Malley, Ltd., 2-8, Wills-st., Birmingham 19.

Stirlingshire (siteworks and erection of Tarran temporary houses): Grangemouth, Wm. Paris, Jnr., 7, Union-rd., Broxburn.

Surrey (erection of Seco temporary houses): Epsom & Ewell, M. J. Gleeson, Ltd., Haredon House, London-rd., N. Cheam, Surrey.

Warwickshire (erection of Arcon temporary houses): Birmingham, Kent & Sussex Contractors, Ltd., 270, Corporation-st., Birmingham.

Worcs (advance preparations of housing sites): Stourbridge Area, W. A. Boswell, School-st., Wolverhampton.

Yorks (erection of central kitchen), Bradford, E. W. Moulson, 64, Fair-rd., Wibsey, Bradford.

¶London (War Dept.).—Works contracts placed by War Dept. for week ended September 15:—

Yorks: Miscellaneous work, Ainsty Building Estates, Ltd., York; Markwell, Holmes & Hayter, Ltd., Hull, Yorks.

Notts: Miscellaneous work, W. J. Bains & Son, Kirkby-in-Ashfield, Notts.

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Essex: Pitchmastic flooring, Associated Asphalte Co., Ltd., London, S.W.7.

Longbenton.—Painting 570 houses, for U.D.C.: *W. J. Liddell, Longbenton, £3,652.

Market Bosworth.—Six houses on selected sites, for R.D.C. A. N. Trowbridge, S., Bankchbrs.: *Beck, Crane & Sutton, Market Bosworth, £6,674.

Newcastle-on-Tyne.—130 U.S.A. temporary houses at Blakelaw estate, for City Council: *E. Jeffcock (Contractors), Ltd., Newburn, £36,266.

Newcastle-on-Tyne.—Erection of 87 houses by private enterprise. Marshall, Tweedy & Bourn, Grainger House, Blackett-st., Newcastle, architects: *Wilkinson Bros., Pillars-yd., High-st., Gateshead; 30 houses in flats at Corchester-rd., etc.: *J. J. Hedley, Crawhill-rd., Newcastle; 18 houses at Lanercost-dr., etc.: *R. S. Appleby, Newcastle-on-Tyne; six houses at Westwood-gdns., by private enterprise: *Cunningham & Forster, Kenton-la., Newcastle; six houses at Embassy-gdns.: *J. Bain, Newcastle-on-Tyne.

Penrith.—Conversion of buildings into staff quarters at County Institution, for Cumberland C.C. J. H. Haughan (F.), County Offices, 4, Alfred-st. North, Carlisle: *James Leslie & Sons, Coach-rd., Whitehaven.

Peterborough.—Erection of houses, for T.C. Group 1 (8 at Park-la. estate): *Anton & Bryan, £8,013; Group 2 (12 at Park-la.): *B. Stokeley, £10,140; Group 3 (12 at Elmfield-rd): *W. Ferrar & Sons, £11,806; Group 4 (12 at Elmfield-rd.): *H. V. Goodman, £11,760.

Richmond (Surrey).—Re-erection of four flats at Crofton-ter. and five houses at Mead-rd., Ham, B.E., Hotham House, Heron Court, Richmond, Surrey: *H. J. Walker & Sons, 15, Morden Court-parade, Morden, Surrey, £7,000.

Rochdale.—70 houses at Turf Hill and The Greave sites, for T.C. S. H. Morgan, B.S.: *G. & J. Seddon, Ltd., 3, Manchester-rd. West, Little Hulton, nr. Bolton.

Rowley Regis.—16 houses at Bell-end, for T.C.: *J. M. Tate & Son, Ltd., £12,470 (subject to M.H. approval).

Sheffield.—Erection of 90 houses at Parson Cross site, for T.C. W. George Davies (F.), City A. (30): *M. J. Gleeson, Ltd., 822, Chesterfield-rd., Woodseats 8, £26,975; (20): *W. Memmory & Sons, Ltd., Swallownest, £17,961; (24): *Melling Bros., Ltd., Balfour-rd., Attercliffe 9, £21,819; (16): *L. Brown, £13,120; (all of Sheffield).

Stourbridge.—Two houses at Whittington House Farm for Upper Stour Valley Main Sewerage Board, G. P. Deeley, 9, Church-st.: *E. R. E. Tooby & Son, Cathcart-rd., Stourbridge, £1,861.

Stockport.—School kitchen at Booth-st., Edgeley, for E.C.: *Yarwood's, Moss-la. Bridge, Altrincham.

Sunderland.—403 U.S.A. houses at Nookside and High Southwick estates, for T.C.: *R. G. Finlay, Ltd., Sunderland, £86,624.

Tyne Dock.—Repairs at "A" and "D" Staiths at Tyne Dock, for Tyne Improvement Commission: *G. Wimpey & Co., Ltd., Uxbridge, Middx, £53,000.

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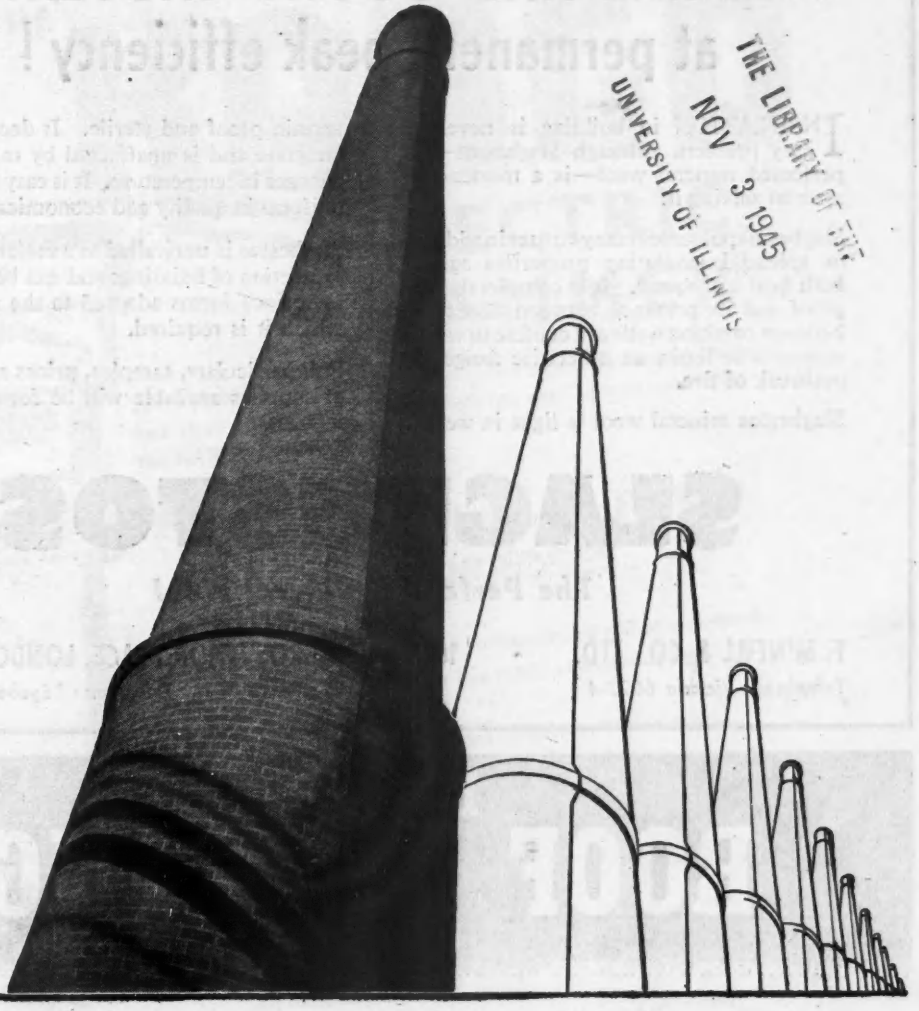

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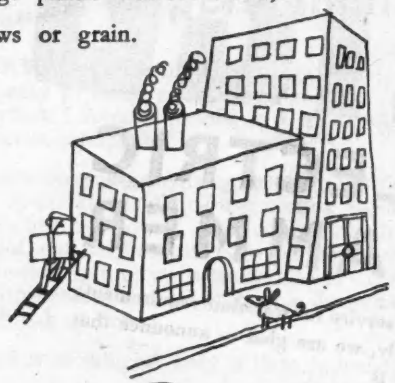

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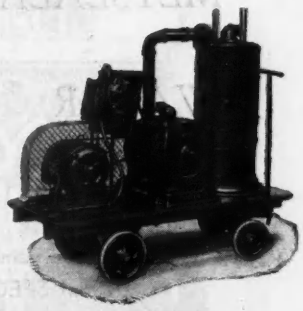

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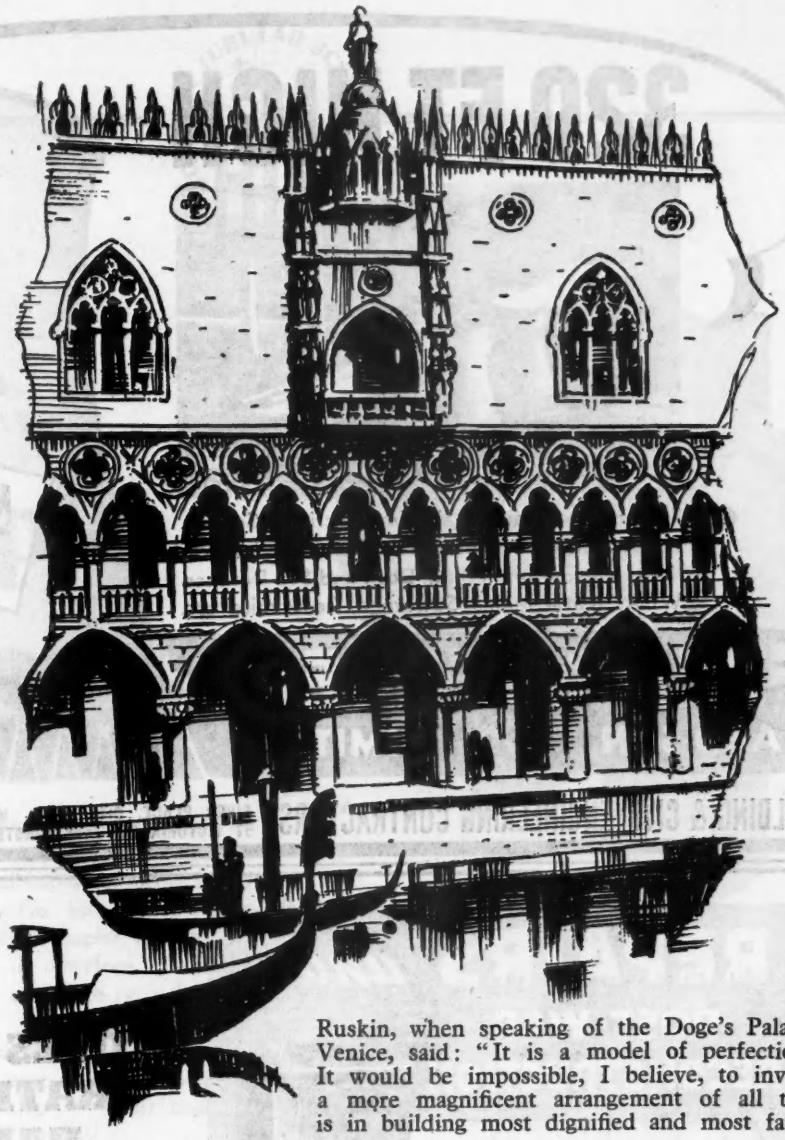

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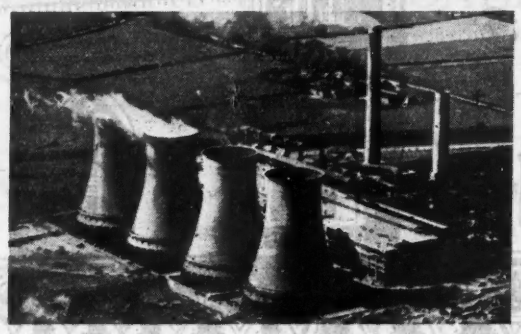

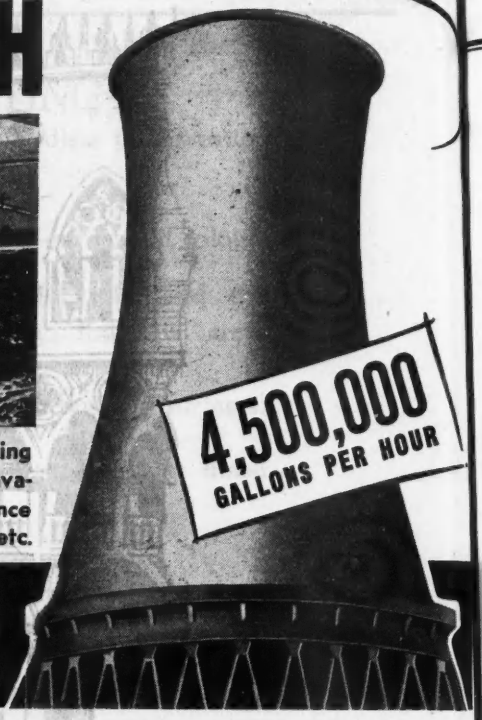

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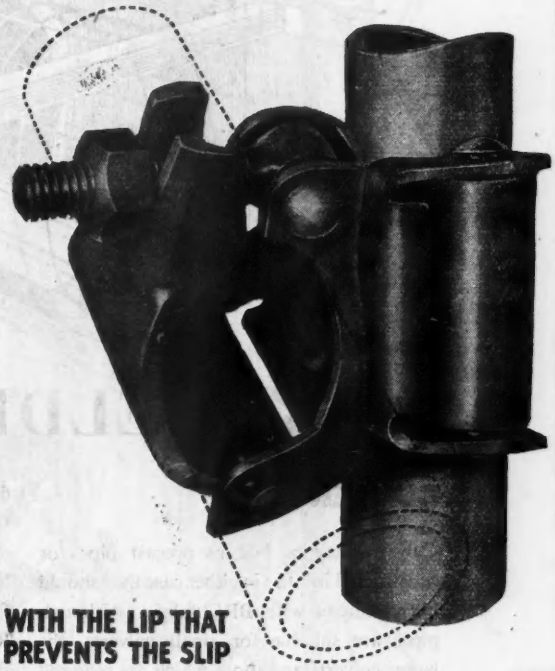

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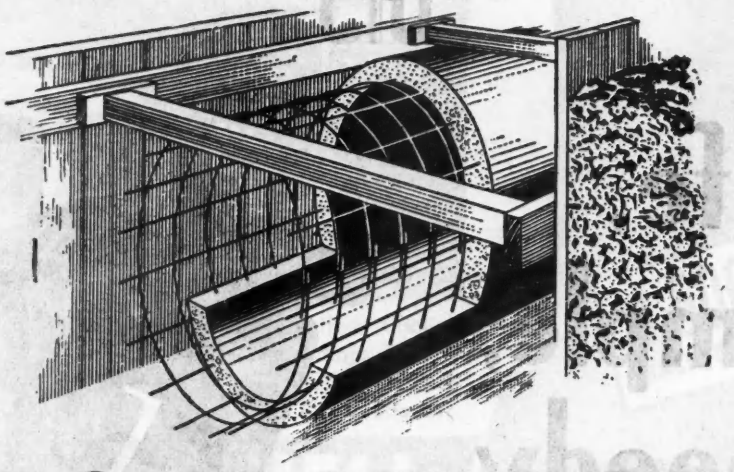

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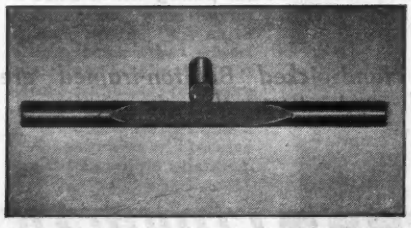

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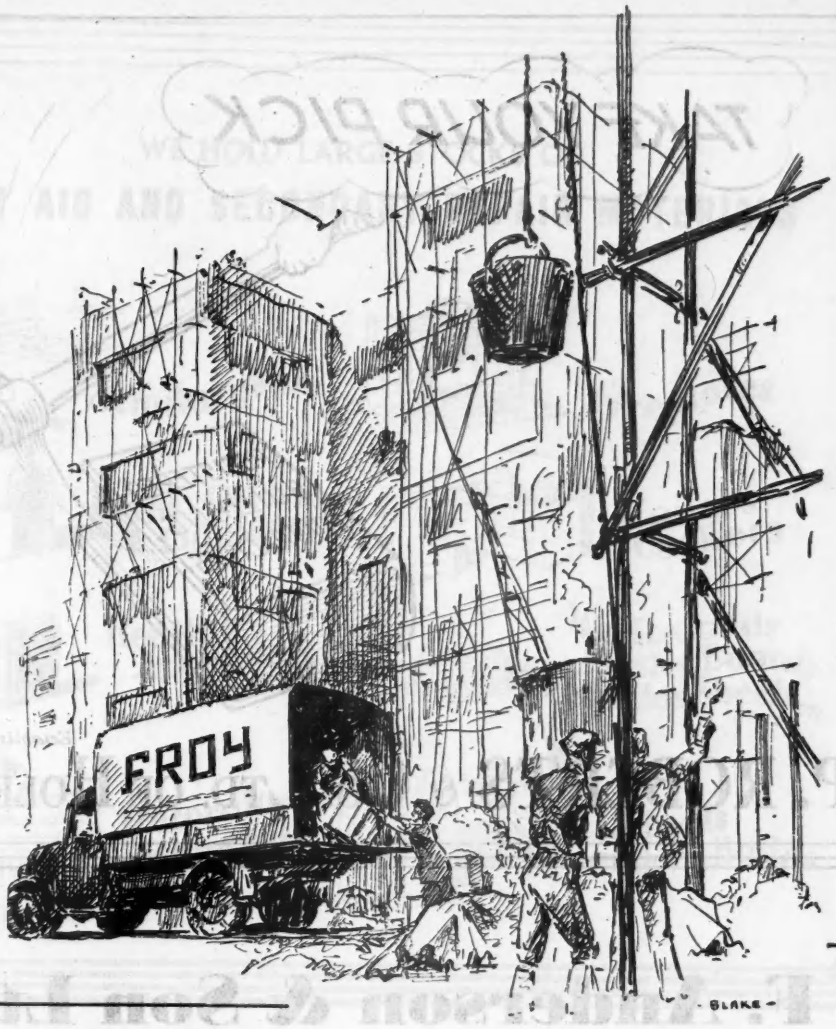

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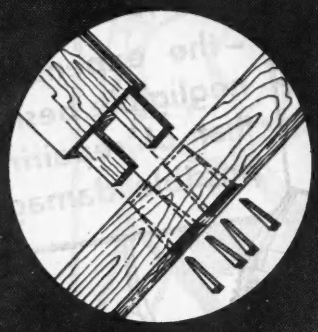

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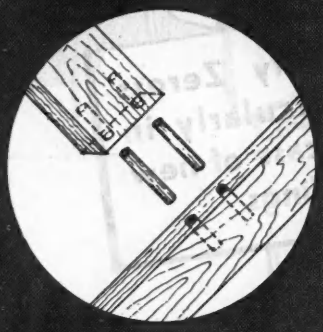

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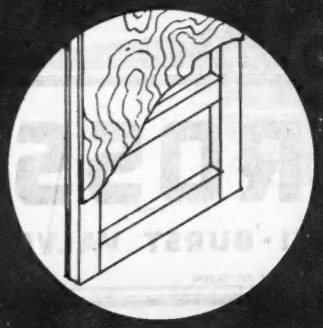

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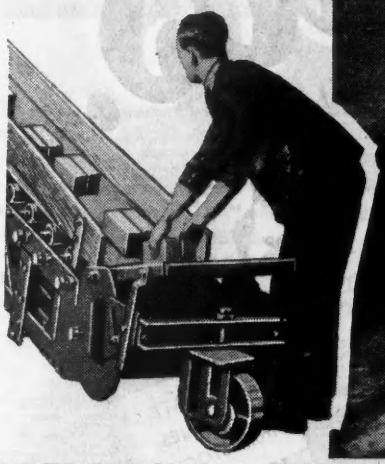

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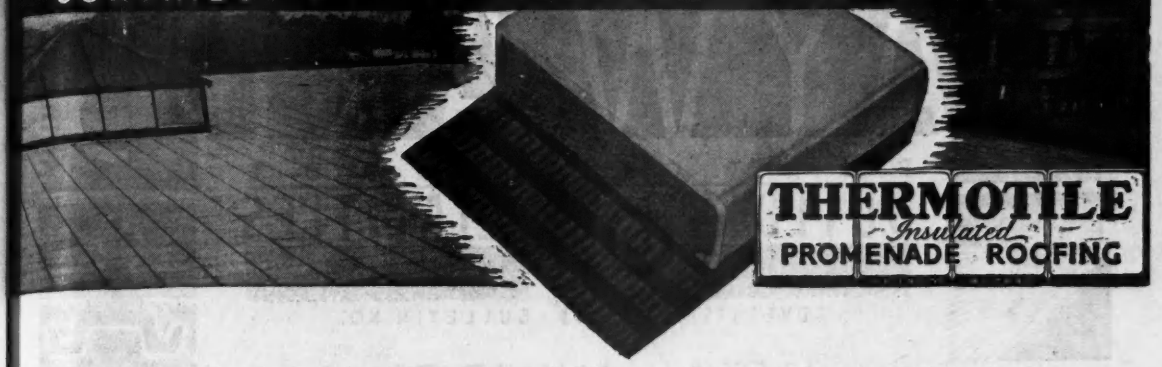

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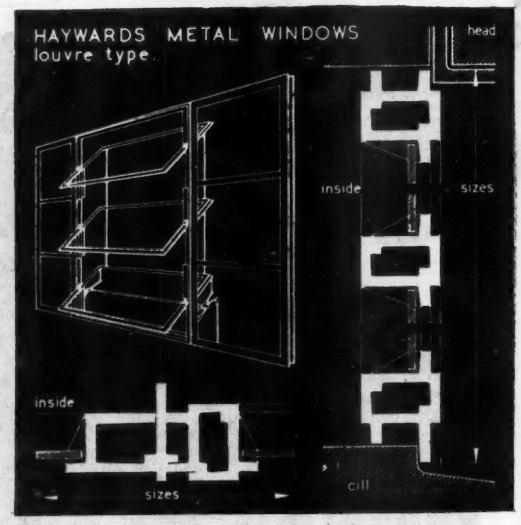

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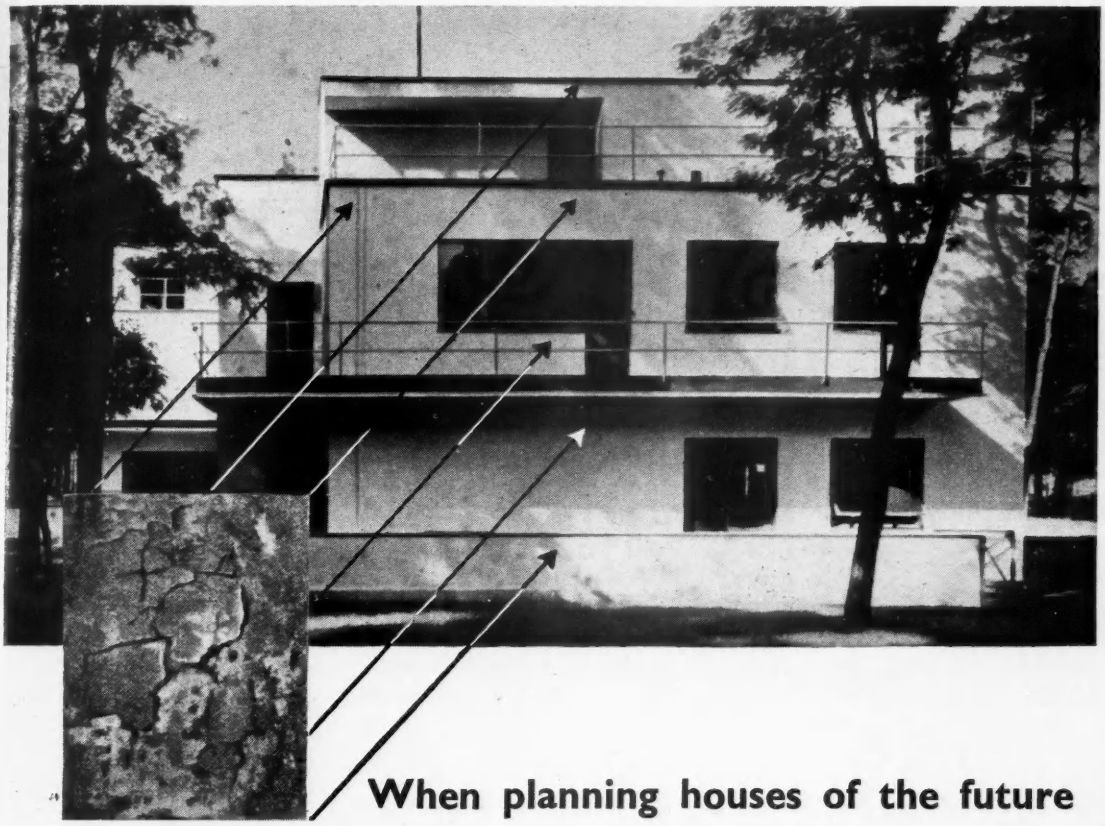

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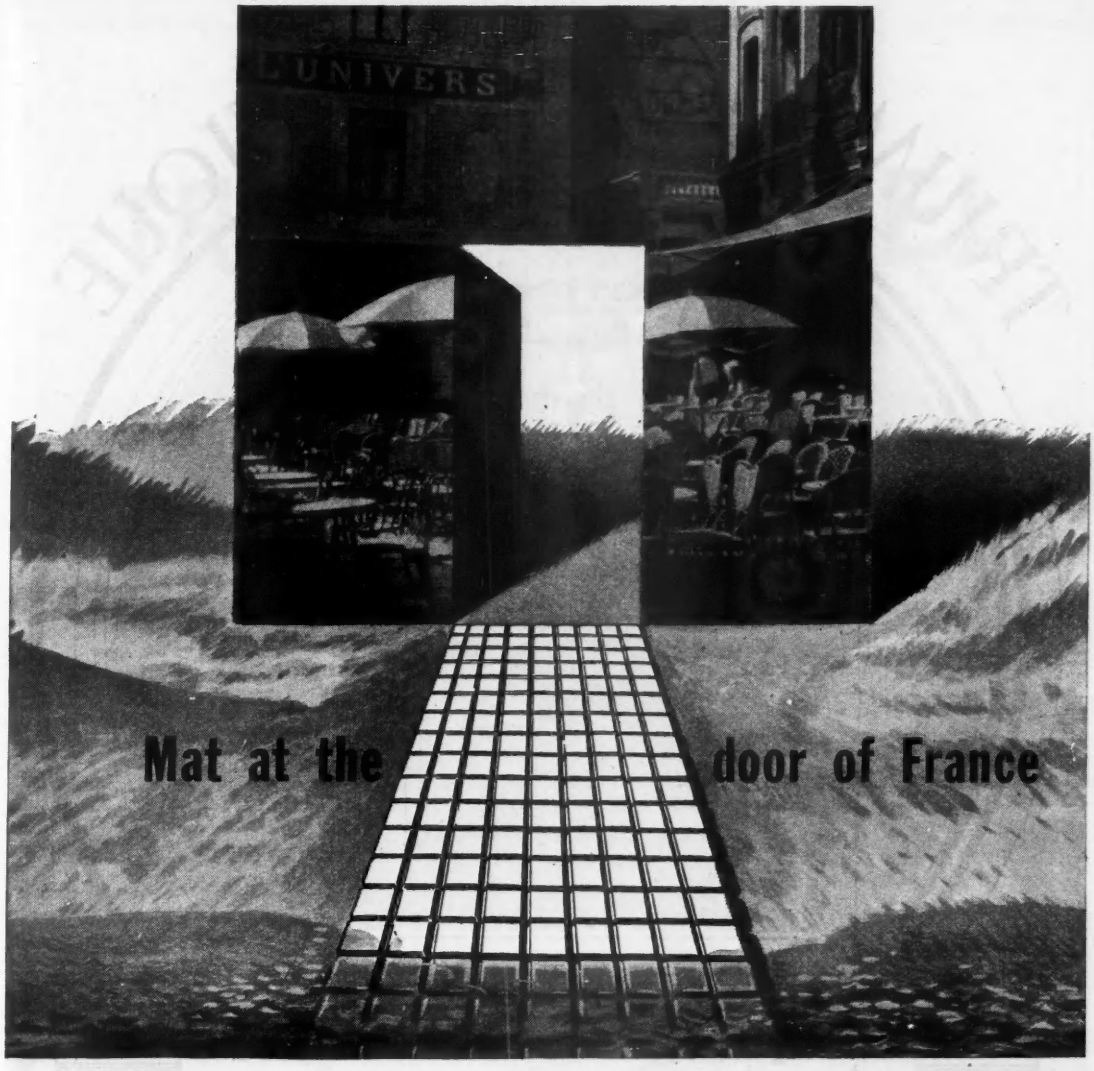

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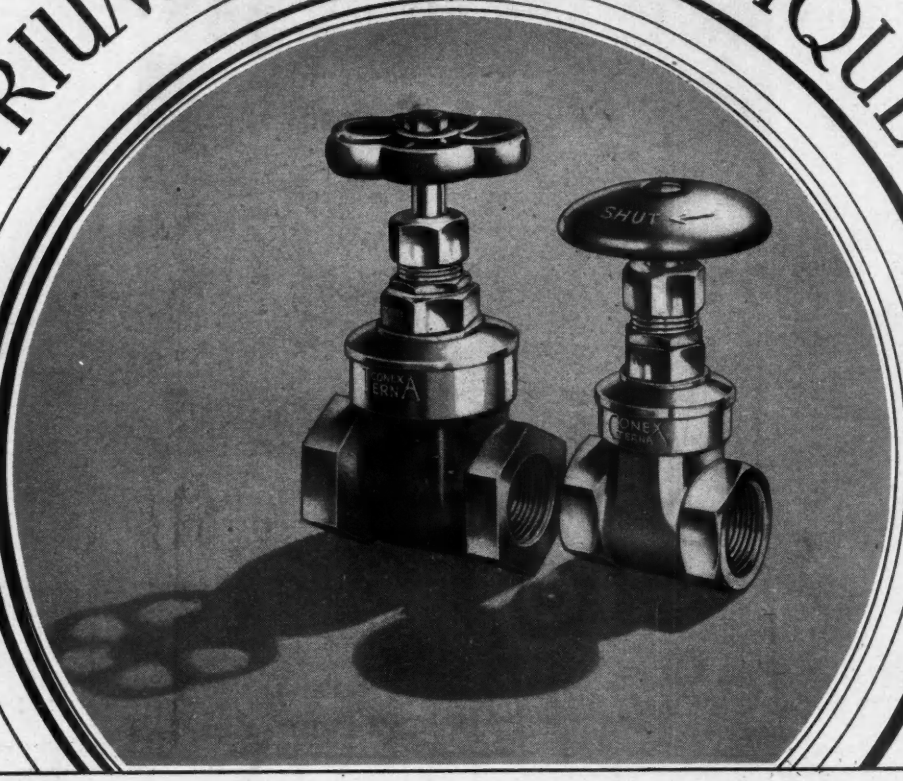

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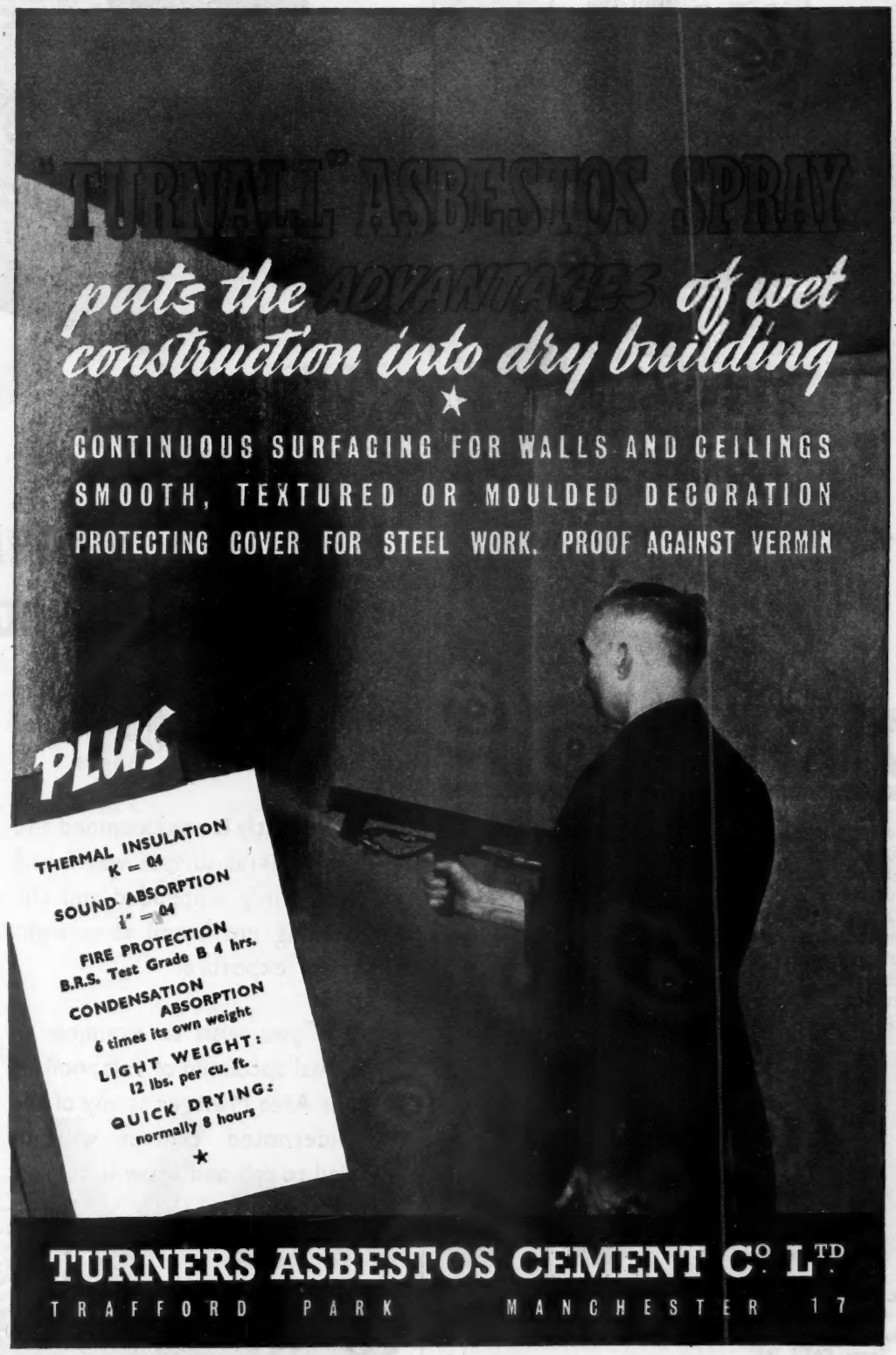
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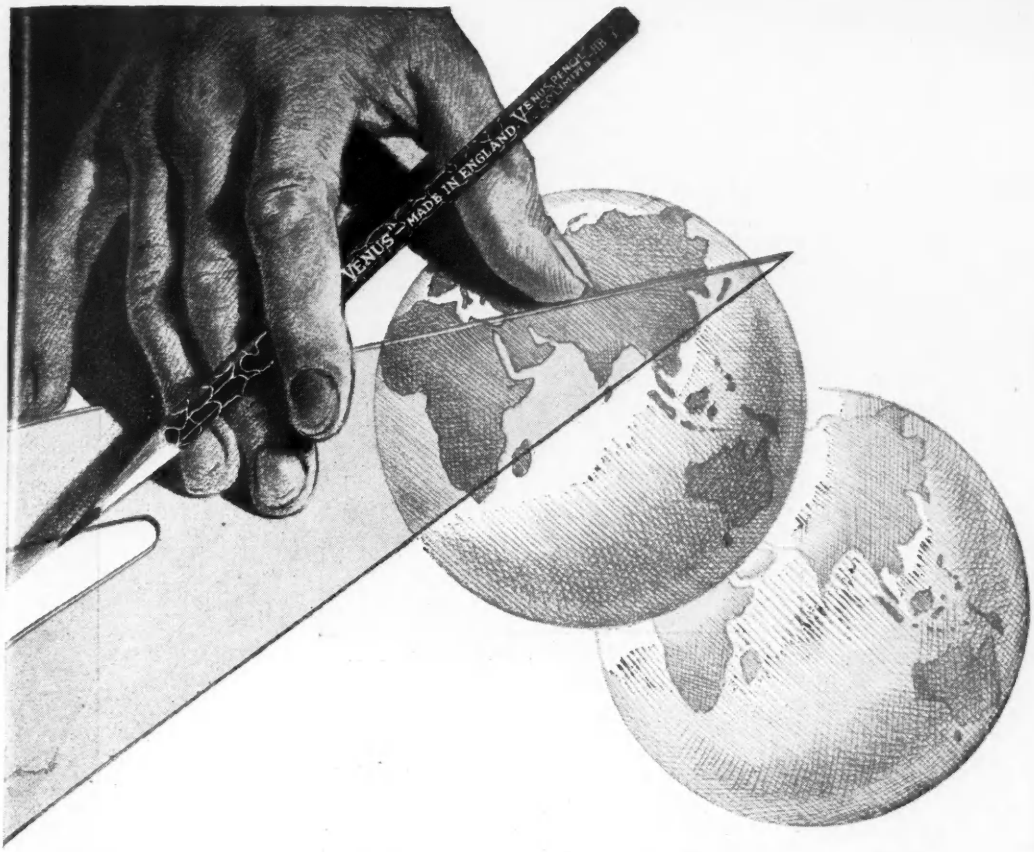

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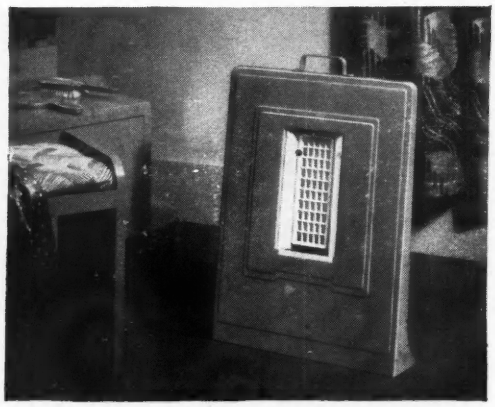

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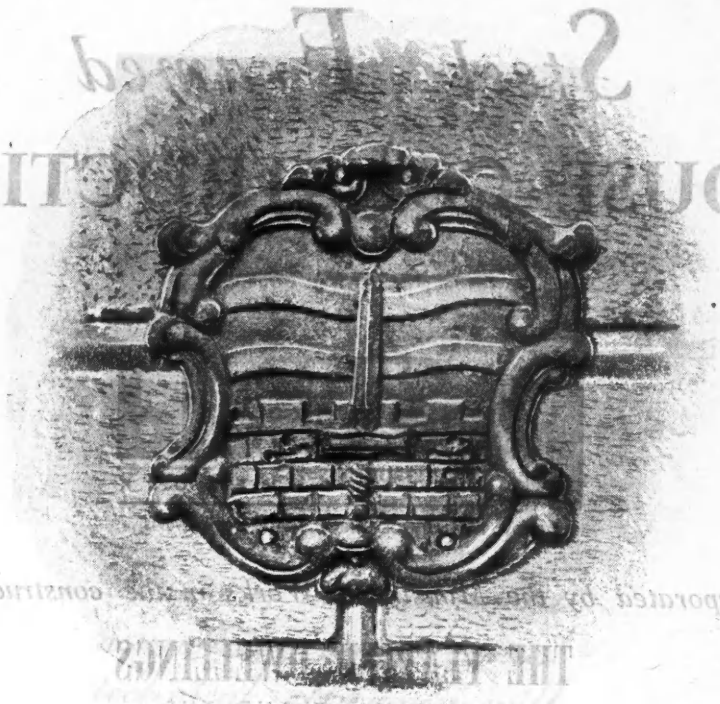

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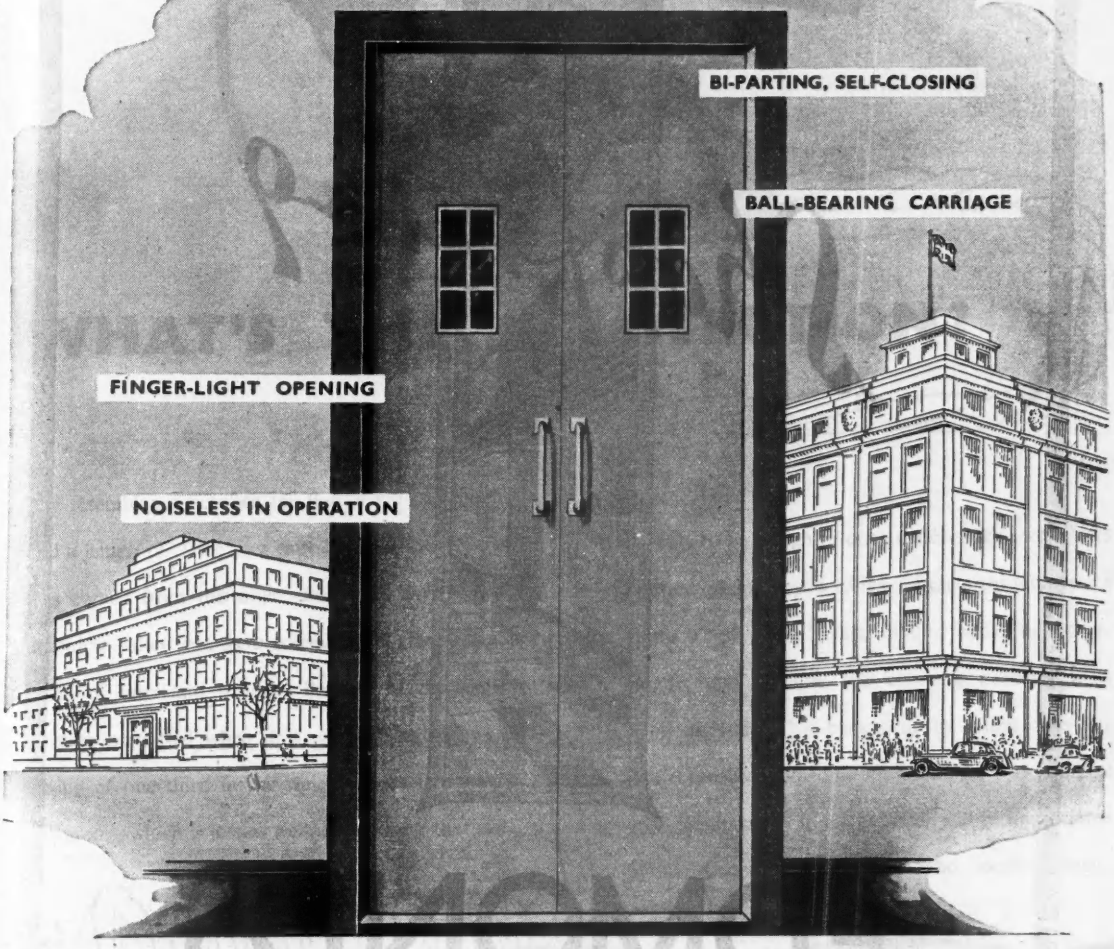

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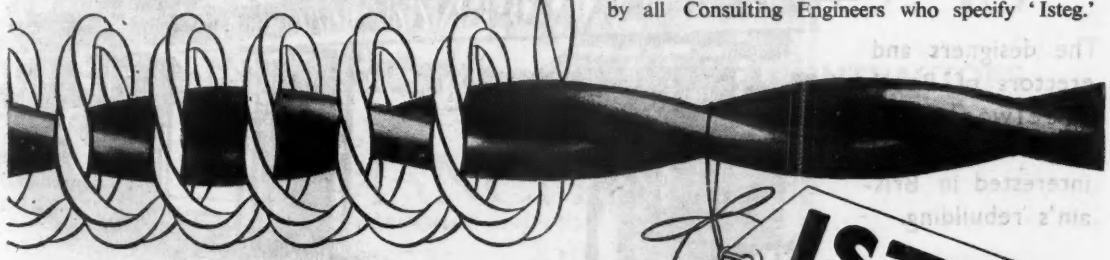

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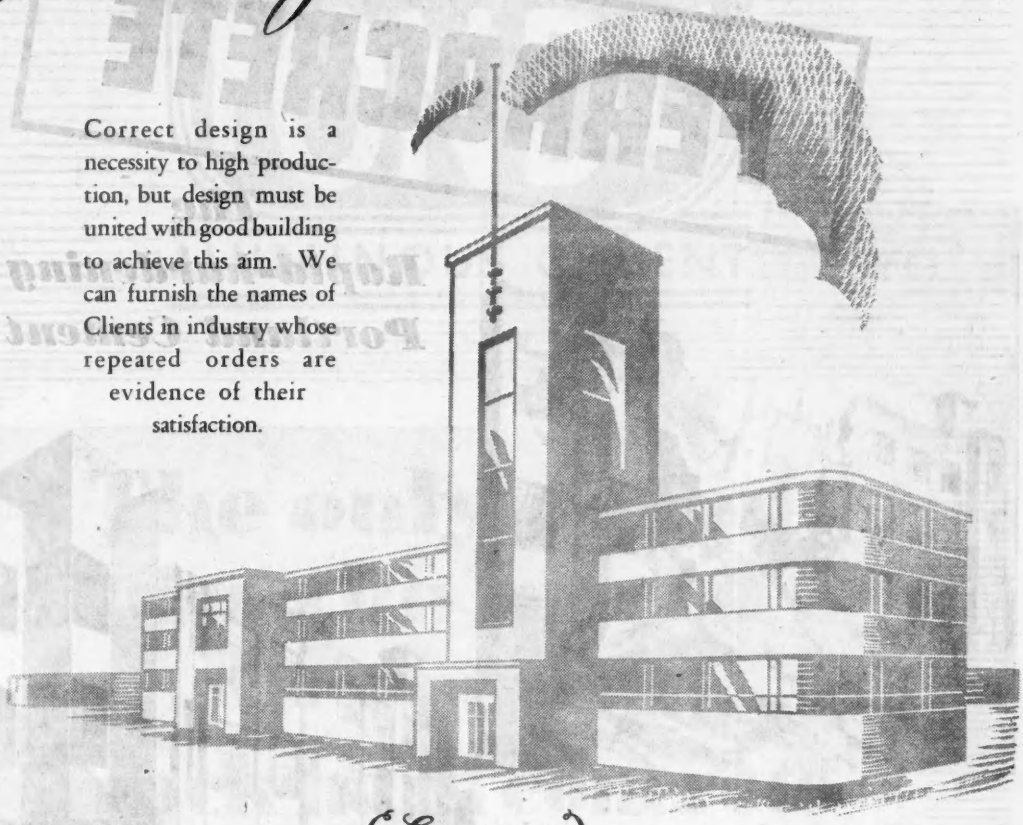

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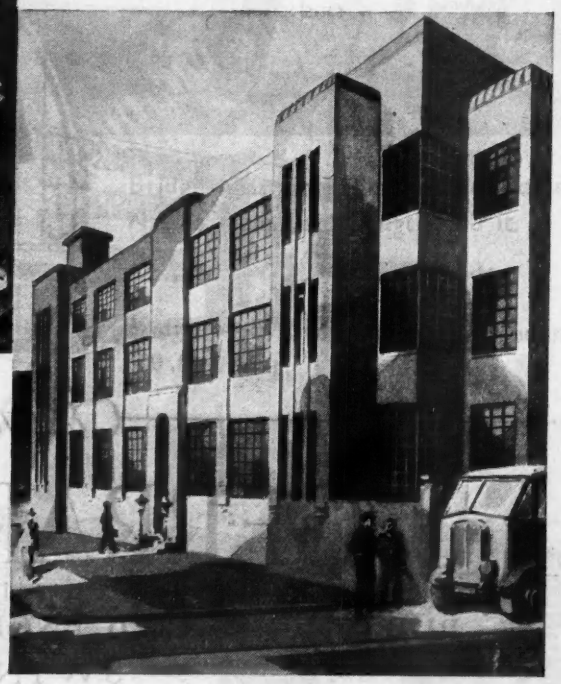

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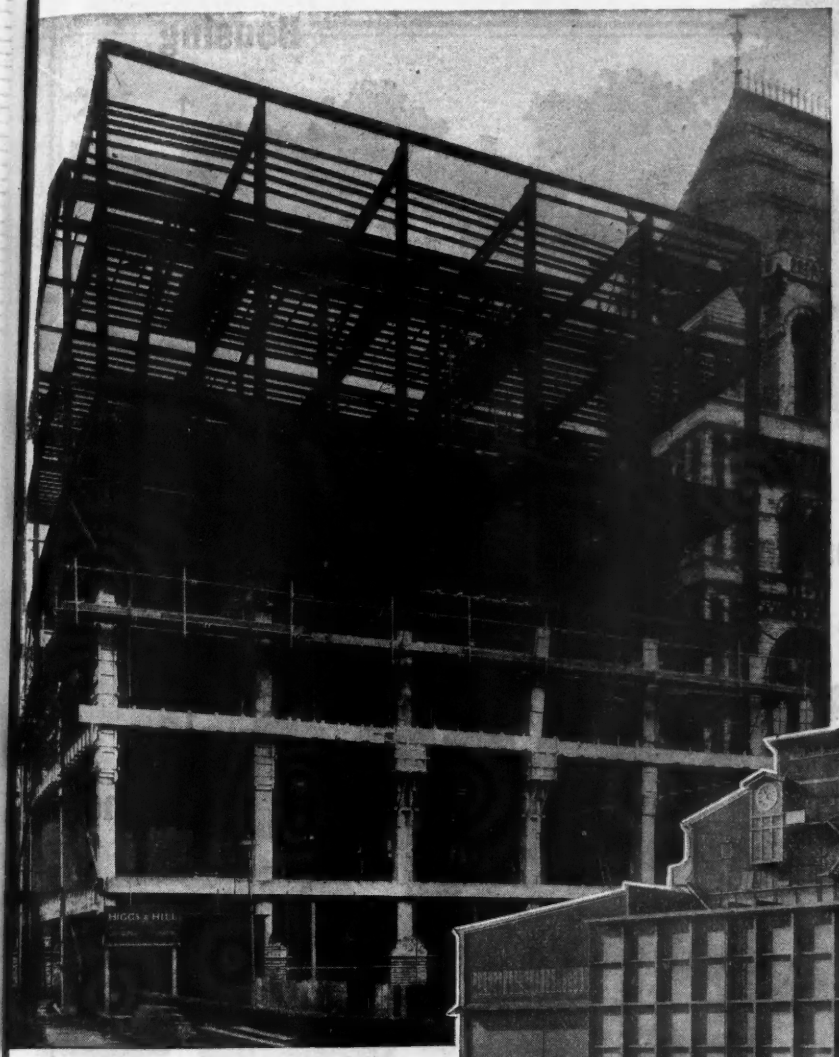

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The British Cast Iron Research Association has a Building Uses Department which is available for dealing with enquiries from architects and builders about cast iron. Mr. Derek L. Bridgwater, F.R.I.B.A., is Consultant to the department.

Enquiries should be addressed to THE BUILDING USES DEPARTMENT, BRITISH CAST IRON RESEARCH ASSOCIATION, *Alvechurch, Birmingham*

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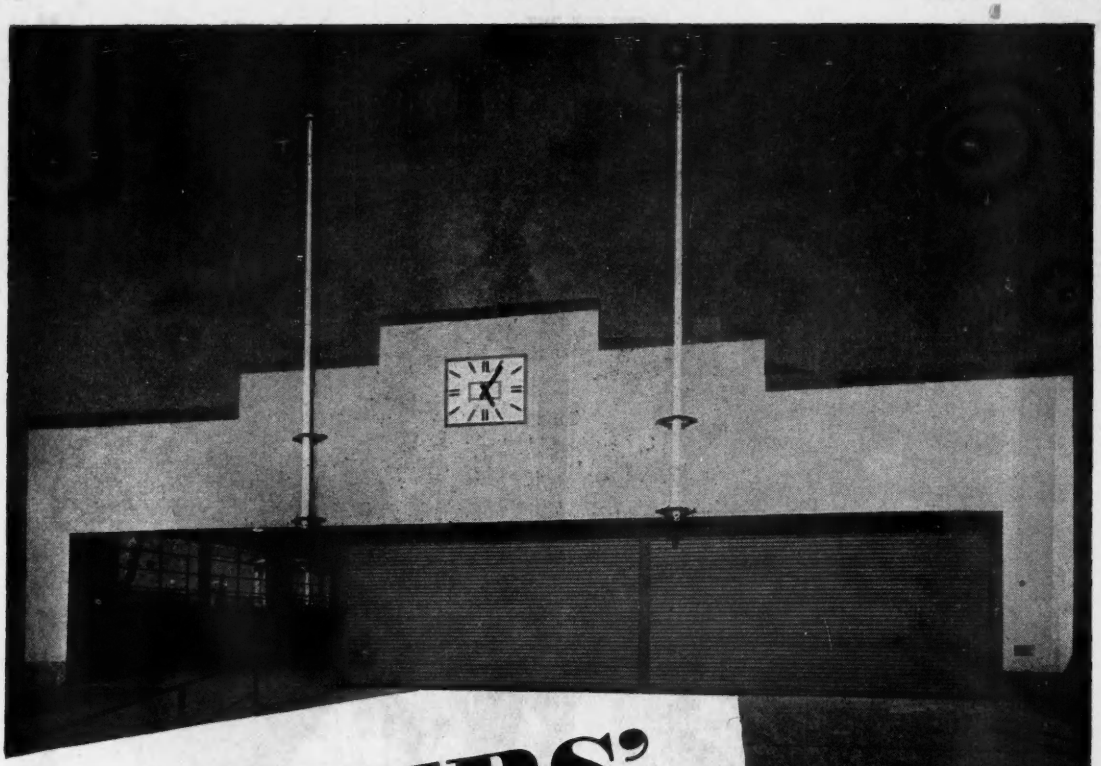

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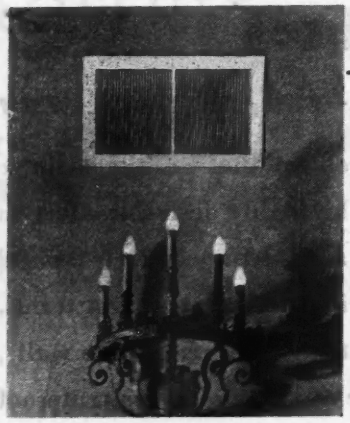

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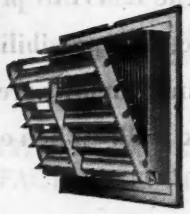

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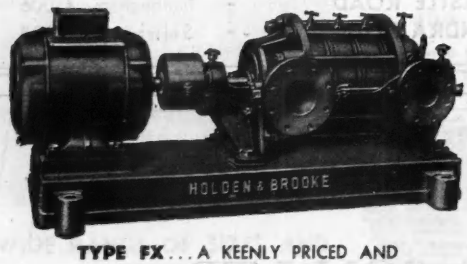

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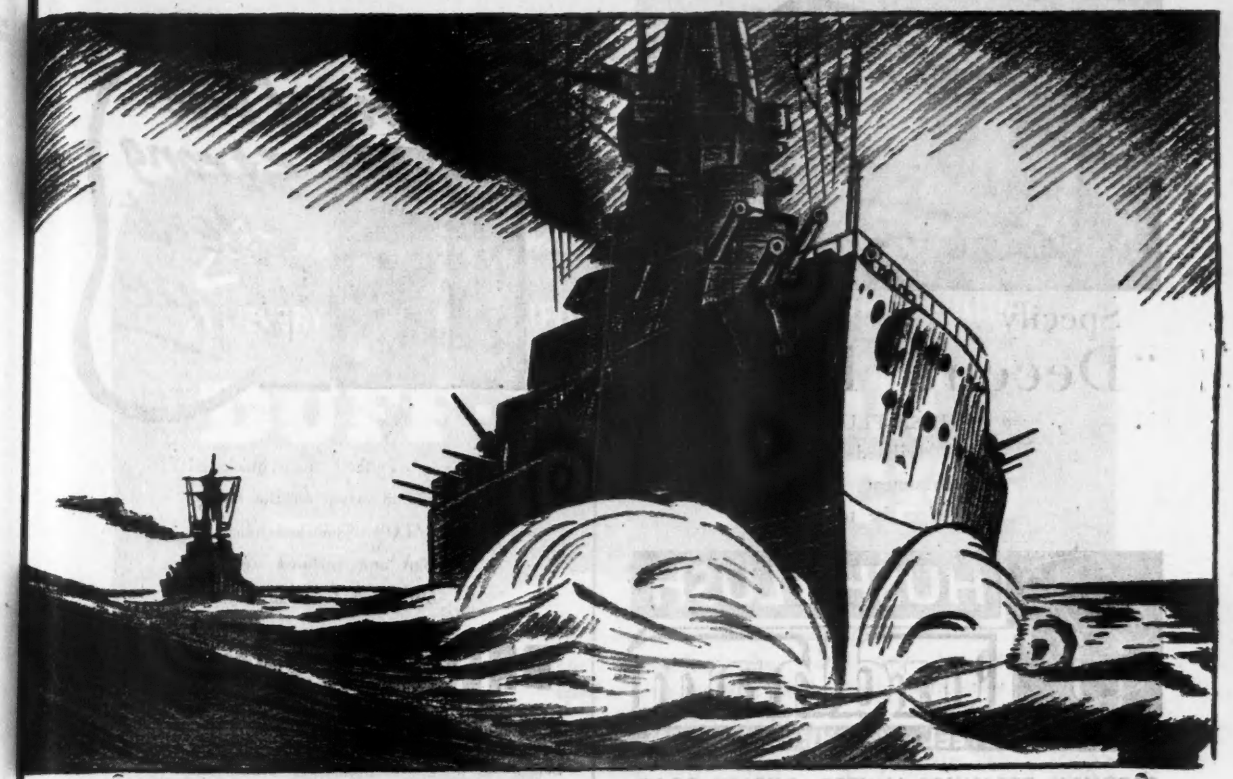

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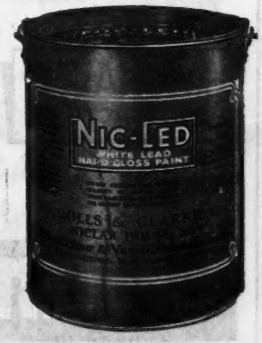

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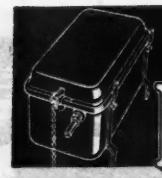

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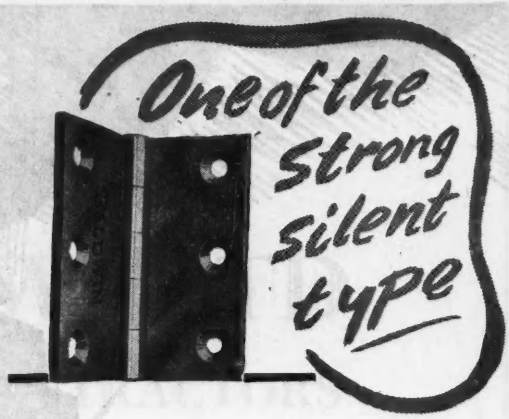

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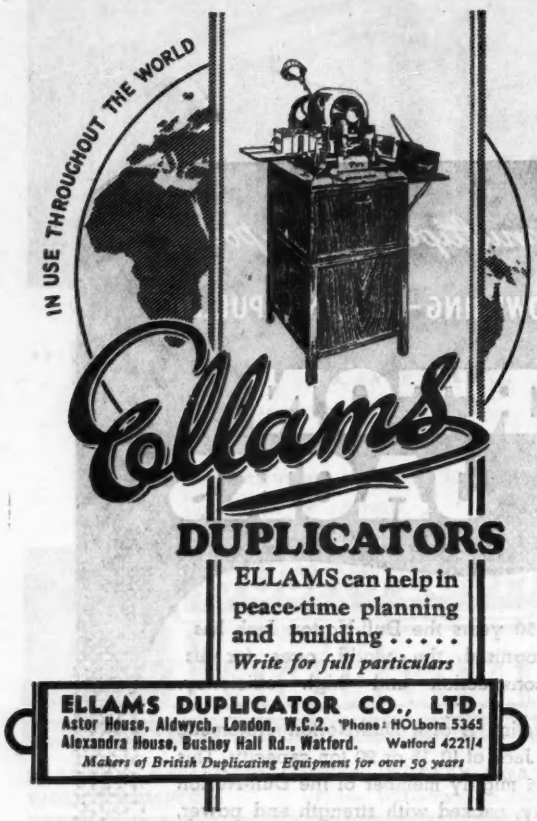

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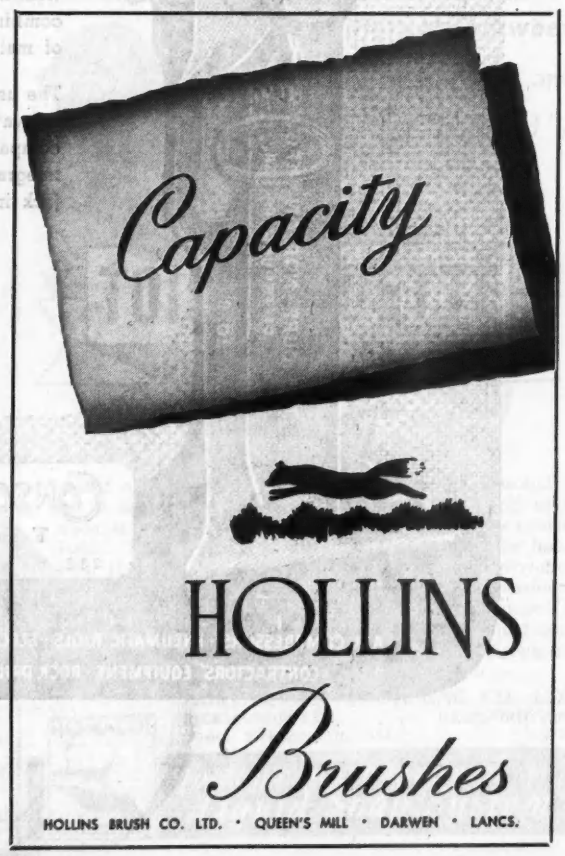

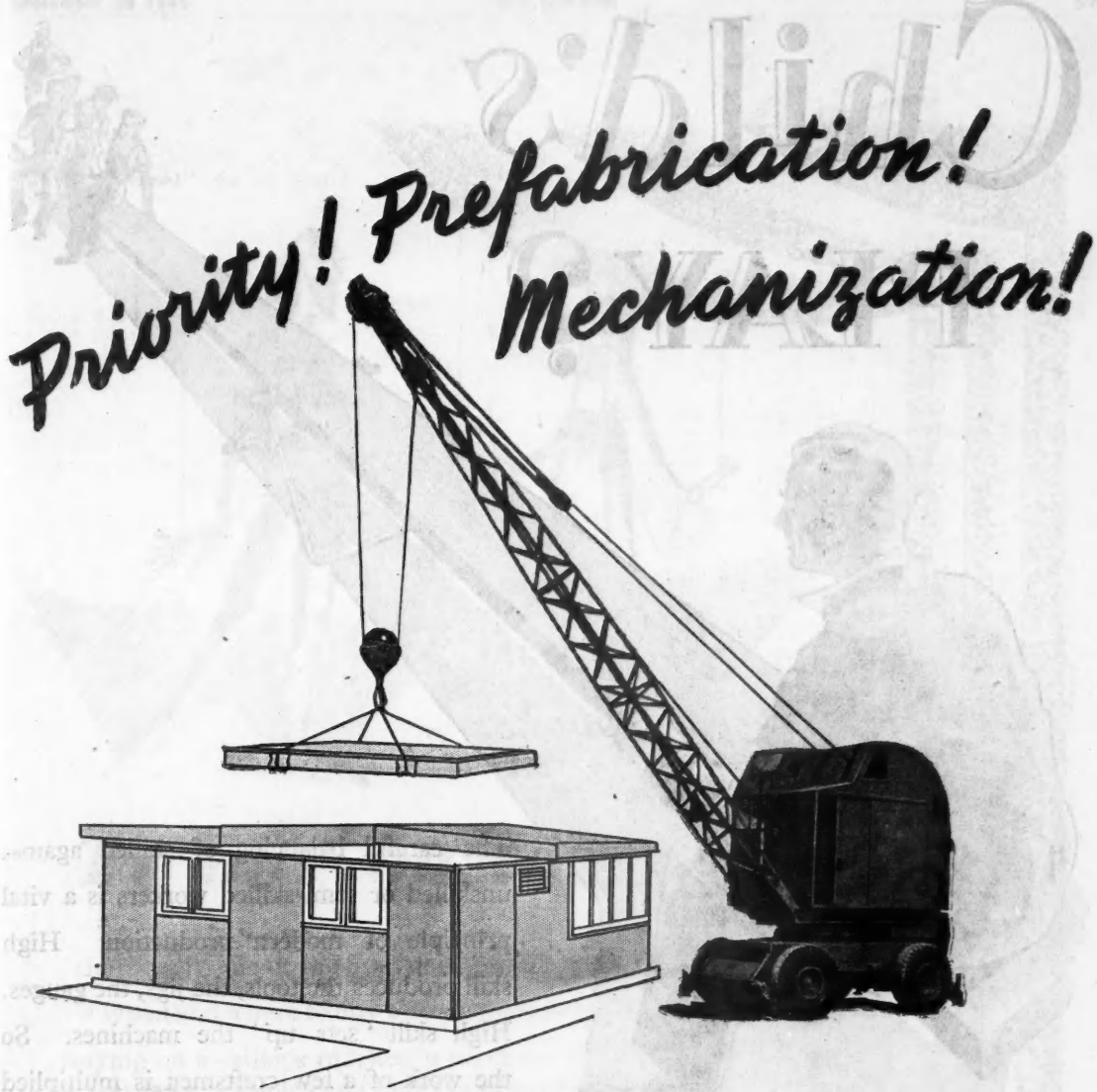

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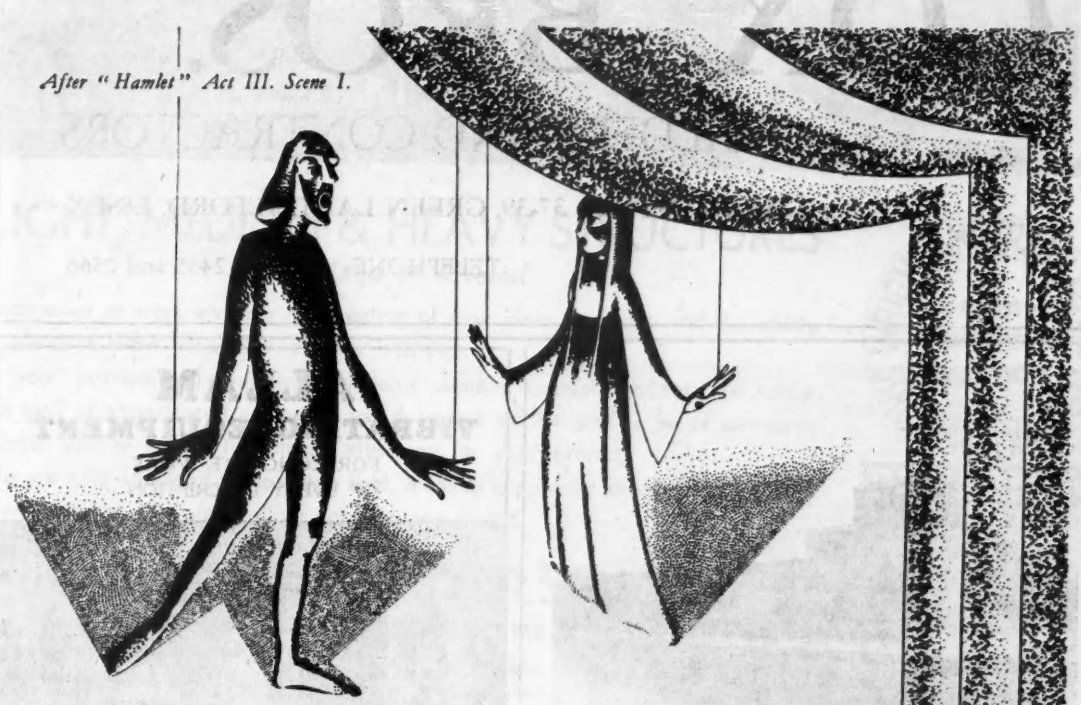

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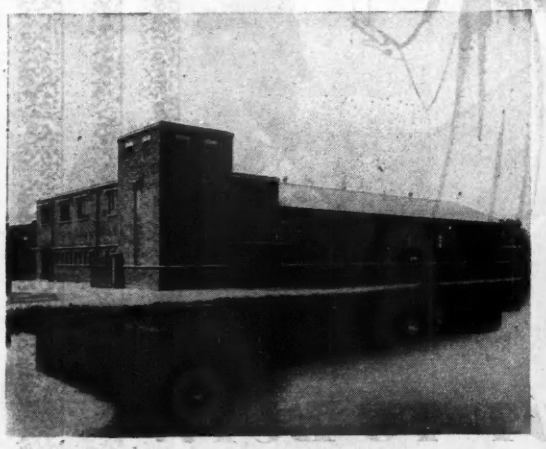

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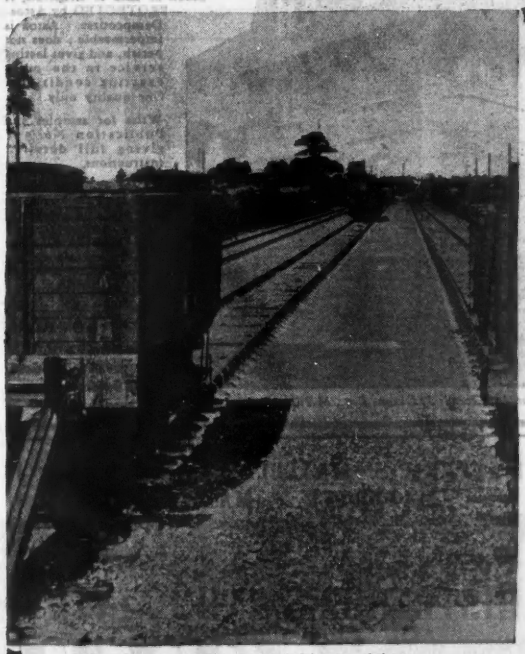

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CONTRACTS

SOUTHGATE BOROUGH COUNCIL.

TO BUILDERS AND CONTRACTORS.

ERECTION OF 50 NEW HOUSES, BRUTON'S LAND, BARROWELL GREEN, N.21.

The above-mentioned COUNCIL invite TENDERS for the ERECTION of FIFTY HOUSES at BRUTON'S LAND, BARROWELL GREEN, N.21.

Tenders may be submitted for the whole fifty houses or for the following groups of houses:—

Group 1.—Comprising three pairs "A" type.
Group 2.—Comprising three pairs "A" type and one pair "B" type.
Group 3.—Comprising four pairs "A" type.
Group 4.—Comprising two pairs "A" type and one pair "B" type.
Group 5.—Comprising three pairs "B" type.
Group 6.—Comprising four pairs "A" type.
Group 7.—Comprising four pairs "A" type.

Plans can be seen by arrangement with the Borough Engineer and Surveyor, Mr. J. T. W. Peat, F.R.I.B.A., at the Southgate Town Hall, Palmers Green, N.13.

The Council cannot guarantee a supply of labour for the work.

Contractors wishing to tender should make written application, stating for which Group or Groups they wish to tender, not later than SATURDAY, the 6th OCTOBER, 1945, to the Borough Engineer and Surveyor, enclosing cheque for £2 2s. as deposit for Form of Tender and Bills of Quantities. This deposit will be returned on receipt of a bona fide tender and the return of all documents. In the case of the accepted tender, the deposit will be retained until a Contract and Bond have been entered into with the Council, and in the event of withdrawal such deposit will be forfeited.

No tender will be accepted unless submitted in a plain sealed envelope, which shall bear no name or mark indicating the sender, and endorsed "Tender for Houses."

The Council do not bind themselves to accept the lowest or any tender, and the acceptance of any tender will be subject to the approval of the Ministry of Health.

GORDON H. TAYLOR,
Town Clerk.

Southgate Town Hall,
Palmers Green, N.13.
14th September, 1945.

FARNBOROUGH URBAN DISTRICT COUNCIL

HAWLEY-LANE HOUSING SCHEME (500 HOUSES).

TO BUILDING CONTRACTORS.

TENDERS are invited for the ERECTION of the FIRST SECTION of the above Scheme, comprising 100 Houses, as follows:—

40 PAIRS SEMI-DETACHED HOUSES, THREE-BEDROOM TYPE.
5 BLOCKS OF 4 HOUSES, THREE- AND FOUR-BEDROOM TYPE.

Plans, Specifications, Bills of Quantities, etc., can be obtained on application to the Council's Engineer and Surveyor, Mr. I. C. Jenkins, B.Sc., Assoc.M.Inst.C.E., upon payment of a deposit of £5, which will be refunded on receipt of a bona-fide Tender and the return of the Plans and all Documents.

The closing date for applications to Tender will be WEDNESDAY, 3rd OCTOBER, 1945. The latest date for the receipt of Tenders will be notified to Contractors with the Plans and Documents.

The Council do not bind themselves to accept the lowest or any Tender.

D. STUART JONES,
Clerk of the Council.

Town Hall,
Farnborough, Hants.
14th September, 1945.

CITY OF DURHAM.

TO BUILDERS.

ERECTION OF PERMANENT HOUSES.

CONTRACT NO. 1—50 HOUSES.

TENDERS are invited from BUILDING CONTRACTORS having labour available and able to be placed upon the works for the ERECTION of 50 HOUSES on the CORPORATION'S SUNDERLAND-ROAD—KEPIER-LANE HOUSING SITE.

Plans, Specification, General Conditions, and full particulars may be obtained on application to the City Engineer and Architect, Town Hall, Durham, upon cheque deposit of £2 2s., which will be refunded on receipt of a bona-fide Tender and return of all Plans and documents.

Tenders, in plain sealed envelopes endorsed "Housing Tender," to be received by the undersigned not later than first post on MONDAY, 15th OCTOBER, 1945.

The Corporation do not bind themselves to accept the lowest or any Tender.

GEORGE R. BULL,
Town Clerk.

32, Claypath,
Durham.

WAR DEPARTMENT CONTRACTS.

TENDERS are about to be invited for Term Contract work in the following areas:—

1. WHITEHAVEN—CLEATOR—NETHERTON.
2. WORKINGTON.
3. CARNFORTH—KIRKBY LONSDALE.
4. LANCASTER—HEYSHAM.
5. GRANGE-OVER-SANDS—CARK.
6. ULVERSTON—MILLOM—ASKHAM.
7. PENRITH—POOLEY BRIDGE.
8. BROUGH—KIRKBY STEPHEN.
9. APPLEBY.
10. BRAMPTON (EAST CARLISLE).
11. BURNLEY.
12. RAWTENSTALL—BACUP.
13. PRESTON—BARRACKS—RIBBLETON.

The Contracts (on a measurement basis on the War Department Schedule of Prices) for a minimum of six months, covers repairs and incidental builders' work at Military Camps and Stations within the areas named.

Contractors who desire to tender should apply in writing, stating the area(s) in which they are interested, to:—

THE CHIEF ENGINEER,
North-West District,
25b, Winckley-square,
Preston, Lancs.

CITY OF WAKEFIELD.

FLANSHAW HOUSING ESTATE EXTENSION.

The CORPORATION invite TENDERS for the ERECTION of HOUSES on the FLANSHAW ESTATE and will consider Tenders for the Erection of 70 Houses complete, or for groups of two or more Houses according to the resources of the Contractor.

Copies of the Conditions of Contract, Plans, Specifications and Bills of Quantities may be obtained from the City Engineer, Town Hall, Wakefield, on deposit of Two Guineas, which will be returned on receipt of a bona-fide Tender.

Sealed Tenders, on the official form, endorsed "Tender for the Erection of House—Flanshaw Estate," together with the priced Bills of Quantities, must be returned to the undersigned, in the envelopes provided, in accordance with the Instructions to Tenderers not later than 9 a.m. on THURSDAY, the 11th OCTOBER, 1945.

W. S. DES FORGES,
Town Clerk.

Town Hall,
Wakefield.

BOROUGH OF HENDON.

PERMANENT HOUSES.

CONTRACT WORKS NO. 545.

The BOROUGH COUNCIL invite TENDERS for the ERECTION of 47 HOUSES of normal construction, and the COMPLETION of FOUR HOUSES remaining uncompleted since 1939.

Bills of Quantities will be issued in respect of the new Houses, and Plans and Specification for the work required to the Four Houses, and application for these must be made to Mr. A. O. Knight, Borough Engineer and Surveyor, Town Hall, Hendon, N.W.4, accompanied by a deposit of Three Guineas (£3 3s.), which will be returned on receipt of a bona-fide Tender on the form provided. Cheques to be made payable to Hendon Borough Council. Application to be received not later than the 12th OCTOBER, 1945.

The date for the receipt of Tenders will be given on the Form of Tender, and the Tenders to be returned in the envelope provided, which shall not bear any name or mark indicating the sender. Tenders received after the nominated date will not receive consideration.

The Corporation does not bind itself to accept the lowest or any Tender.

Dated this 15th day of September, 1945.

LEONARD WORDEN,
Town Clerk.

Town Hall,
Hendon, N.W.4.

CITY OF SALFORD.

TENDERS invited by 12 noon on FRIDAY, 19th OCTOBER, 1945, for the ERECTION of 144 FLATS at REGENT-ROAD.

Plans and General Conditions of work may be inspected at, and Specification, Bills of Quantities and Form of Tender obtained from, the City Engineer's Office, Town Hall, Salford, on payment of deposit of £5 5s., which will be returned on receipt of a bona-fide Tender.

Tenders to be addressed to the Town Clerk, Town Hall, Salford, 3, and endorsed "Flats—Regent-road."

H. H. TOMSON,
Town Clerk.

28th September, 1945.

DRAYTON RURAL DISTRICT COUNCIL.

POST-WAR HOUSING.

TENDERS are invited from Builders and Contractors for the ERECTION and COMPLETION of the first batch of 30 HOUSES on various sites, more particularly described as to numbers and location in the following schedule:—

ADDERLEY	8
DORRINGTON	4
CHILDS ERCALL	4
CALVERHALL	6
HINSTOCK (THE LINKS)	4
IGHTFIELD	2
LONGFORD TURNING	2

Tenders will be considered for Houses on individual sites, groups of sites, or collectively. Copies of the Plans and Specifications may be obtained from the Council's Architects, Messrs. Hind and Brown, A.R.I.B.A., 22, Glebe-street, Stoke-on-Trent, on deposit of £2 2s., which will be returned on receipt of a bona-fide Tender. The Council do not bind themselves to accept the lowest or any Tender. Tenders must be submitted on the prescribed form and enclosed in a plain sealed envelope, with the words "Tender for Houses" inscribed in the top left-hand corner, and addressed to the Clerk, Drayton Rural District Council, Town Hall, Market Drayton, Salop, and to be delivered not later than 12 noon on MONDAY, 22nd OCTOBER, 1945.

CITY OF STOKE-ON-TRENT.

TO BUILDERS AND CONTRACTORS.

The CITY COUNCIL invite TENDERS for PERMANENT HOUSES on the ANCHOR-ROAD ESTATE, LONGTON, in Contracts as follows:—

CONTRACT NO. 1	64 HOUSES
CONTRACT NO. 2	10 HOUSES
CONTRACT NO. 3	20 HOUSES
CONTRACT NO. 4	18 HOUSES
CONTRACT NO. 5	12 HOUSES
CONTRACT NO. 6	14 HOUSES
CONTRACT NO. 7	24 HOUSES
CONTRACT NO. 8	24 HOUSES
CONTRACT NO. 9	8 HOUSES

Firms desiring to tender must make written application for the Bills of Quantities and Plans to the CHIEF ARCHITECT, City Architectural Department, Kingsway Chambers, Kingsway, Stoke-on-Trent, to be received not later than first post, Wednesday, 3rd October, 1945.

Applications must be accompanied by a deposit of £2 (Treasury Notes), which will be returned to the Contractor on receipt of a bona-fide Tender and the return of the particulars.

Tenders are to be delivered to the undersigned by 2 p.m. on FRIDAY, 19th OCTOBER, 1945.

The successful Contractor will be required to conform to the Standing Orders of the City Council relating to Contracts.

The City Council do not undertake to accept the lowest or any Tender.

HARRY TAYLOR,
Town Clerk.

Town Hall,
Stoke-on-Trent.

THURROCK URBAN DISTRICT COUNCIL.

CENTRAL LIBRARY, GRAYS.

The COUNCIL invite TENDERS for the PERMANENT REPAIRS of WAR DAMAGE at the CENTRAL LIBRARY, GRAYS.

Specification, Forms of Tender, etc., may be obtained on application to E. Fincham, Esq., A.R.I.B.A., Chartered Architect, the Red House, Orsett, Essex.

Sealed Tenders, in the envelope provided, should be delivered to the undersigned not later than noon on MONDAY, 15th OCTOBER, 1945.

A. E. POOLE,
Clerk of the Council.

Council Offices,
Grays, Essex.
20th September, 1945.

CITY OF MANCHESTER.

HOUSING ACTS.

The HOUSING COMMITTEE are prepared to receive TENDERS for the ERECTION of the following DWELLINGS:—

170 RESIDENTIAL FLATS at HULME CLEARANCE AREA.
16 HOUSES—at various small sites.

Quantities, General Conditions and Tender Forms in connection with the above will be available at the office of the Housing Department, Town Hall, Manchester, on the 8th October, 1945, and will be supplied on production of the receipt for deposit of Two Guineas (to be refunded on the submission of a bona-fide tender and the return of the documents).

Tenders, which must be enclosed in the official envelope provided for the purpose and sealed, should be addressed to the Chairman of the Housing Committee, and must be deposited at the Town Hall, Manchester, by 12 noon on the 22nd OCTOBER, 1945.

The Corporation do not bind themselves to accept the lowest or any tender.

PHILIP B. DINGLE,
Town Clerk.

Town Hall,
Manchester, 2.
September, 1945.

URBAN DISTRICT COUNCIL OF TONBRIDGE.

PERMANENT HOUSING SCHEME.

The COUNCIL invite TENDERS for the ERECTION of 53 HOUSES at LODGE OAK-LANE, TONBRIDGE.

Bills of Quantities, Conditions of Contract and Form of Tender may be obtained on application to the undersigned on payment of a deposit of £2 2s. (Two Guineas), which will be refunded on receipt of a bona-fide Tender and the return of all Documents. Drawings may be inspected on application to the Engineer and Surveyor to the Council, at the undermentioned address.

Sealed Tenders, in plain envelopes, endorsed "Tender for Post-war Houses," to be received by the undersigned not later than 12 noon on 19th OCTOBER, 1945.

Contractors may tender for the whole of the work or for any group or groups of houses on the Form of Tender.

The Council does not bind itself to accept the lowest or any Tender.

Dated the 24th day of September, 1945.

S. J. THORNE,
Clerk of the Council.

Tonbridge Castle,
Tonbridge.

CITY OF STOKE-ON-TRENT.

TO BUILDERS AND CONTRACTORS.

The CITY COUNCIL invite TENDERS for PERMANENT HOUSES on the CHELL HEATH ESTATE, TUNSTALL, in Contracts as follows:—

CONTRACT NO. 1	8 HOUSES
CONTRACT NO. 2	30 HOUSES
CONTRACT NO. 3	12 HOUSES
CONTRACT NO. 4	28 HOUSES

Firms desiring to tender must make written application for the Bills of Quantities and Plans to the CHIEF ARCHITECT, City Architectural Department, Kingsway Chambers, Kingsway, Stoke-on-Trent, to be received not later than first post, Wednesday, 3rd October, 1945.

Applications must be accompanied by a deposit of £2 (Treasury Notes), which will be returned to the Contractor on receipt of a bona-fide Tender and the return of the particulars.

Tenders are to be delivered to the undersigned by 2 p.m. on FRIDAY, 19th OCTOBER, 1945.

The successful Contractor will be required to conform to the Standing Orders of the City Council relating to Contracts.

The City Council do not undertake to accept the lowest or any Tender.

HARRY TAYLOR,
Town Clerk.

Town Hall,
Stoke-on-Trent.

HARROW URBAN DISTRICT COUNCIL.

TO BUILDERS AND CONTRACTORS.

The above COUNCIL invite TENDERS for the ERECTION of 72 PERMANENT HOUSES on the RAYNERS-LANE HOUSING ESTATE, SOUTH HARROW.

Plans and Conditions of Contract may be inspected and a copy of the Bills of Quantities obtained on application to the Surveyor (Mr. H. W. Rackham, F.S.I., Council Offices, Uxbridge-road, Stanmore), on payment of a deposit of Three Guineas by crossed cheque, made payable to the Harrow Urban District Council. Returnable where a bona-fide Tender reaches the Council within the prescribed time. Sealed Tenders, in plain envelope, giving no indication of the sender, addressed to the Clerk of the Council, to be delivered to the undersigned by or before 10 a.m. on WEDNESDAY, the 17th OCTOBER, 1945.

The Council do not bind themselves to accept the lowest or any Tender, and reserve the right to allocate the Contract to one or more Contractors.

The persons tendering will be required to satisfy the Council that they have sufficient labour at their disposal to complete expeditiously the number of Houses included in their contract.

VERNON YOUNGER,
Clerk of the Council.

Council Offices,
Harrow Weald Lodge,
Harrow.
22nd September, 1945.

BOROUGH OF MORECAMBE AND HEYSHAM.

ERECTION OF TWENTY-SIX HOUSES ON THE HESTHAM HILL ESTATE.

Applications from Registered Builders desirous of tendering for the ERECTION of the above HOUSES should be submitted to the Borough Surveyor, Town Hall, Morecambe and Heysham, not later than MONDAY, 8th OCTOBER, 1945, together with Deposit Cheque of £2 2s., payable to Morecambe and Heysham Corporation.

The Council reserve the right to allocate the erection of the houses amongst one or more Contractors.

The lowest or any Tender will not necessarily be accepted.

ROGER ROSE,
Town Clerk.

26th September, 1945.

BOROUGH OF CHELTENHAM.

PERMANENT HOUSING PROGRAMME.

LYNWORTH HOUSING ESTATE.

TENDERS are invited for the ERECTION of 62 HOUSES, comprising the first section of the above scheme, as follows:—

3 Blocks of 4 Houses, two-bedroom maisonette type
9 Pairs Semi-detached Houses, three-bedroom type "B."
4 Pairs Semi-detached Houses, three-bedroom type "D."
6 Blocks of 4 Houses, three-bedroom types "A" and "B."

Applications to be made at once to the undersigned for Specification, Bills of Quantities and Form of Tender, which will be forwarded as soon as available. The date for the receipt of tenders will then be indicated. All applications must be accompanied by a deposit of Five Guineas which will be refunded upon the return of all documents and the submission of a bona-fide tender, not subsequently withdrawn.

The Council do not bind themselves to accept the lowest or any tender.

G. GOULD MARSLAND,
B.Sc., M.Inst.C.E.,
Borough Engineer.

Municipal Offices,
Cheltenham
25th September, 1945.

SHROPSHIRE EDUCATION COMMITTEE.

WHITCHURCH MODERN SCHOOL, BROUGHALL.

TENDERS are invited from BUILDING CONTRACTORS for carrying out work of REINSTATEMENT on derequisition of the SCHOOL PREMISES by the Military Authorities.

Contractors wishing to tender will be required to base their tenders on a schedule of dilapidations prepared in my Department, items being paid for at the Schedule of Prices for Works and Repairs to Buildings, etc., of the War Department, subject to such percentage increase as the contractor will indicate when submitting his tender.

Applications for the documents on which tenders will be based, accompanied by a deposit cheque for £2 2s. made payable to the County Accountant, and which will be returned on receipt of a bona-fide tender, must be received by me not later than 10 a.m. on Tuesday, 9th October, 1945, and actual tenders, to be sent under seal to the Secretary for Education, County Buildings Shrewsbury, must be received by him not later than 10 a.m. on TUESDAY, 23rd OCTOBER, 1945.

The lowest or any tender will not necessarily be accepted.

A. G. CHANT,
County Architect.

5, Belmont, Shrewsbury.
September, 1945

RURAL DISTRICT COUNCIL OF GLANFORD BRIGG.

HOUSING CONTRACTS NO.1.

TENDERS are invited for the ERECTION of PERMANENT HOUSES on SITES as under:—

Parish.	No. of Houses.
CADNEY-CUM-HOWSHAM ...	8
WORLABY	4
KIRTON LINDSEY	2

Conditions of Contract may be seen and Plans, Specifications and Form of Tender obtained from Messrs. Buttrick & Buttrick, F.(A.R.I.B.A., Chartered Architects, 43, Oswald-road, Scunthorpe.

A deposit of £2 must accompany application for plans, etc., this amount will be returned on receipt of a bona-fide tender and the return of all documents.

The Contractor may submit tenders for the whole of the houses, or alternatively for all the works on one or more sites. Separate tenders are to be submitted for each site.

Sealed tenders are to be delivered to the undersigned not later than 12 noon on the 17th day of OCTOBER, 1945, marked "Housing Contracts No. 1" on the top left-hand corner of the envelope.

The Council do not bind themselves to accept the lowest or any tender.

T. MORGAN,
Clerk to the Council.

Council Offices,
Bigby-street,
Brigg.
25th September, 1945.

CONTRACTS WANTED

CAN I SOLVE YOUR PROBLEM?

Plastering (Solid or Fibrous), Decoration, Plumbing and Sanitary. Efficient staff now available. Contract or otherwise.—BRADELL, 21, Mossbury-road, S.W.11. 'Phone: Battersea 6391.

STEEL ERECTION by JOHNSON BROS. (STEEL ERECTORS), Ltd. Roof Sheeting for all classes of Industrial Building, supplied and fixed. Factory Chimneys, Industrial Plant. Scaled and painted pipe laying.—Head Offices: 5, Victoria street, London, S.W.1 'Phone: Abbey 1453.

A FIRM of AIRCRAFT ENGINEERS will shortly have available approximately 10,000 man-hours per week which they wish to devote to the production of Prefabricated Houses. The available capacity will cover all machining, detail assembly and fitting. Expert technical staff available. Estimates can be provided now.—Box 387, "The Builder," W.C.2.

BUILDING AND DECORATING CONTRACTORS, reopening pre-war London branch in November, wish to contact Private and Commercial Property Owners, with a view to carrying out maintenance work, on time and materials or estimate basis.—BURRAGE BROS., 664, London-road, Westcliff. 'Phone: Southend 49730.

SUB-CONTRACTS WANTED

WORK wanted for a 4-Ton Crawler Crane, which is also suitable for excavation work.—COMMERCIAL STRUCTURES, Ltd., Staffa-road, Leyton, E.10.

COMBING capacity available, from 1½ pitch. Precision work on modern machines. Excellent alternative to dovetailing. Competitive rates and prompt deliveries.—Apply, C. S., Ltd., Staffa-road, Leyton, E.10.

JOINERY WORKS in Home Counties can undertake SUB-CONTRACTS on competitive basis.—Send details of your requirements to Box 391, "The Builder," W.C.2.

PLASTERING · PLUMBING · PAINTING
Best Work. Expert Attention.
MORRIS, 34, Grove Rd., Wanstead, E.11.

BRICK or PLASTER WORK. Labour only. References. Registered.—Box 327, "The Builder," W.C.2.

WANTED.—SUB-CONTRACTS, all trades.—T. G. P & CO., 17, Bloom Park-road, S.W.6.

PLASTERING or DECORATING. London area or South of Thames.—Reply, "CONTRACTS," c/o JASIM, Ltd., 317, High Holborn, W.C.1.

SUB-CONTRACTORS WANTED

LARGE Firm of LONDON BUILDING CONTRACTORS would like to hear from SUB-CONTRACTORS willing to undertake the manufacture of joinery and work in the following trades, in London and other parts of the country: Excavating, Bricklaying, Paving and Kerb-fixing, Slating, Roof-tiling, Wall and Asbestos Board Fixing, Plastering, Floor and Wall Tiling, Plumbing, Glazing and Painting.—Box 367, "The Builder," W.C.2.

BRICKWORK, CARPENTER WORK and PLASTERING SUB-CONTRACTORS please communicate with well-known House Builder, South Coast, West Sussex. Two years' work on approximately 140 Houses.—Box 384, "The Builder," W.C.2.

LARGE LANCASHIRE FIRM of BUILDING and C.E. CONTRACTORS would like to hear from SUB-CONTRACTORS willing to undertake work in all parts of England in the following trades: Slating; Wall, Floor and Roof Tiling; Plastering; Plumbing; Glazing and Painting. Please state if large or small contracts desired and districts preferred.—Box 417, "The Builder," W.C.2.

PLASTERING AND BRICKWORK SUB-CONTRACTORS Wanted by old-established Builders for work in London area. Weekly payments. Contract or other arrangements according to job.—Box 479, "The Builder," W.C.2.

BRICKWORK AND PLASTERING SUB-CONTRACTORS are invited to communicate with a prominent firm of house builders for housing estate work in West and South-West London.—Write, Box 481, "The Builder," W.C.2.

PUBLIC APPOINTMENTS

None of the vacancies in these columns relates to a man between the ages of 18 and 50 inclusive or a woman between the ages of 18 and 40 inclusive unless he or she is excepted from the provisions of the Control of Engagement Order, 1945, or the vacancy is for employment excepted from the provisions of that Order.

MILLWRIGHT Required by MIDDLESEX COUNTY COUNCIL at MIDDLESEX COLONY, Harper-lane, Shenley, near St. Albans Herts, a certified institution for mental defectives Wage: Trade rate. Temporary staff. 48-hr. week Non-resident.—Written applications, with details of age, quals., exper., copies of up to two recent testimonials to ACTING MEDICAL SUPERINTENDENT "B.2," at Colony.

MELKSHAM URBAN DISTRICT COUNCIL.

APPOINTMENT OF CLERK OF WORKS (BUILDING).

Applications are invited for the appointment of a CLERK OF WORKS (BUILDING) with the Melksham Urban District Council. The appointment is a temporary one at a salary of 8 Guineas per week, inclusive of War Bonus.

Applicants should have a sound knowledge of building construction and of the several Building Trades. They should preferably have had previous experience in the supervision of construction of Housing schemes.

The appointment will be terminable by one month's written notice on either side. Canvassing in any form will be deemed a disqualification. Applications endorsed "Clerk of Works" stating age, experience and qualifications (if any), accompanied by copies of two recent testimonials, must be delivered to the undersigned not later than the first post on 15th OCTOBER, 1945.

D. H. McKERCHAR,
Engineer, Architect and Surveyor.

Town Hall,
Melksham, Wilts.

WELLINGTON (SALOP) RURAL DISTRICT COUNCIL.

HOUSING SURVEY.

Applications are invited from persons possessing the necessary Building qualifications and experience to carry out a Housing Survey of the Council's District as required by the Ministry of Health. A detailed schedule of duties and classification of standards prescribed can be obtained on application to the undersigned.

Salary will be paid at the rate of £300 per annum with an additional £75 per annum as travelling allowance. A junior assistant for clerical work entailed will be provided.

Applications with qualifications and experience should be delivered not later than 17th OCTOBER, 1945.

J. E. MORRIS,
Clerk of the Council.

Council Chambers,
Tan Bank,
Wellington,
Salop.

SOMERSET COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for:—

TEMPORARY QUANTITY SURVEYORS, at a salary within the scale £310 per annum by annual increments of £15 to £415 per annum.

The commencing salaries will be determined by experience and qualifications. War Bonus in accordance with the Council's scale to be paid in addition to the above salaries.

The successful candidates will be required to pass a medical examination by the County Medical Officer of Health.

Applications, stating age, training, experience, qualifications, position in regard to Military Service, and length of time required to take up new appointment, together with copies of three recent testimonials, should be sent to the undersigned not later than the 6th OCTOBER, 1945.

E. O. HARRIS, A.R.I.B.A.,
County Architect.

Park-street,
Taunton,
Somerset.
20th September, 1945.

RAWMARSH URBAN DISTRICT COUNCIL.

Applications are invited for the appointment of an ENGINEERING ASSISTANT at a salary of £225, rising by two annual increments of £25 to £275, plus bonus, at present £59 16s. Candidates must be capable Surveyors and Draughtsmen, trained in a Municipal Engineer's Office, and preference will be given to qualified candidates.

The appointment is permament, and subject to the provisions of the Local Government Superannuation Act, 1937, and the successful candidate will be required to pass a medical examination.

Applications, stating age, details of experience, qualifications, etc., together with two recent testimonials, must reach the undersigned not later than 8th OCTOBER.

The Ministry of Labour and National Service has given permission, under the Control of Engagements Order, 1945, for the advertisement of this vacancy.

J. R. S. CREIGHTON,
Engineer and Surveyor.

Rawmarsh Urban District Council,
Council Offices,
Parkgate,
Rotherham, W.R.,
17th September, 1945.

BOROUGH OF SHREWSBURY.

SURVEYOR'S DEPARTMENT.

Applications are invited for the following permanent appointments in the Department of the Borough Surveyor. Applicants for the position of Architectural Assistant should preferably have passed the Final Examination of the R.I.B.A. Applicants for any of the other three positions should have passed at least the Intermediate, but preferably the Final Examinations of the appropriate professional Institution, or possess equivalent technical qualifications. In addition to the salaries mentioned below, cost-of-living bonus will be paid in each case:—

(1) ARCHITECTURAL ASSISTANT.
Salary £350 p.a., rising by annual increments of £15 to a maximum of £395 p.a.
Experience in the design of small dwelling-houses and general municipal architectural work is essential.

(2) SECOND ENGINEERING ASSISTANT.
Salary £290 p.a., rising by annual increments of £15 to a maximum of £325 p.a.
Candidates must be capable of making surveys, taking levels and preparing plans, and have good experience of sewerage, road construction and general municipal engineering.

(3) THIRD ENGINEERING ASSISTANT.
Salary £235 p.a., rising by annual increments of £12 10s. to a maximum of £285 p.a.

(4) SECOND TOWN PLANNING ASSISTANT.
Salary £235 p.a., rising by annual increments of £12 10s. to a maximum of £285 p.a.
Candidates must be capable of making surveys, taking levels and preparing plans, and should have good experience of planning work under a Local Authority.

The appointments will be subject to the provisions of the Local Government Superannuation Act, 1937, and to the passing of a medical examination, and will be terminable by two months' notice on either side.

Applications giving full particulars of age, qualifications, past and present appointments and salaries, experience, and, if serving in H.M. Forces, release group, must be received by the undersigned, with copies of three recent testimonials, not later than 1st NOVEMBER, 1945. Applicants who are serving in H.M. Forces overseas may, in lieu of sending copy testimonials, submit the names of three persons to whom reference may be made.

Canvassing directly or indirectly will disqualify.

The Ministry of Labour and National Service have given permission, under the Control of Engagement Order, 1945, for the advertisement of these vacancies.

S. R. H. LOXTON,
Town Clerk.

Guildhall,
Shrewsbury,
18th September, 1945.

OVERSEAS EMPLOYMENT.—

INSPECTOR OF WORKS Required for the Civil Engineering Department, NIGERIAN GOVERNMENT RAILWAYS, for one tour of 12 to 24 months in the first instance, with prospect of permanency. Salary £400, rising to £560 a year. On salary of £400 local allowance of £60 is payable, and also for married men separation allowance £84 to £204, according to number of children. Outfit allowance £60. Free passages and quarters. Candidates should have served an apprenticeship as Carpenters, Bricklayers or Masons, and have a sound knowledge of building construction, including reinforced concrete and steelwork erection, must be able to compute simple quantities from plans and to prepare preliminary estimates for repairs and minor works.

Applications, which must be in writing, stating date of birth, full details of qualifications and experience, including present employment, also Identity and National Service or other Registration particulars, and quoting reference No. O.S.927, should be addressed to the MINISTRY OF LABOUR AND NATIONAL SERVICE, Appointments Department, Sardinia-street, Kingsway, London, W.C.2.

CITY AND COUNTY OF THE CITY OF EXETER.

Applications are invited for the appointment of ASSISTANT ARCHITECTS on the permanent staff of the City Architect's Department.

The salary in the first instance will be £420 per annum and will be subject to review. In addition there will be a cost-of-living bonus which at present is £59 19s. 3d. per annum.

Candidates should preferably be A.R.I.B.A.s with experience in large-scale Municipal Housing and/or Educational Buildings.

The appointments will be subject to one calendar month's notice on either side and to the provisions of the Local Government Superannuation Act, 1937. The persons appointed will be required to pass medical examinations.

Applications, stating age, qualifications, previous and present appointments, with salaries and exact designations, full details of experience, and date when available, together with copies of three recent testimonials, should be sent to F. R. Steele, F.R.I.B.A., F.S.I., A.M.T.P.I., City Architect, 2, Southernhay West, Exeter, not later than 12th OCTOBER, 1945.

Members serving with H.M. Forces overseas may wire their applications in the first instance.

C. J. NEWMAN,
Town Clerk.

Town Clerk's Office,
Exeter,
13th September, 1945.

MITFORD AND LAUNDITCH RURAL DISTRICT COUNCIL.

HOUSING OFFICER.

The COUNCIL invite applications for the position of HOUSING OFFICER and RENT COLLECTOR. The officer must have experience of building in all its branches, and be qualified to act as Clerk of the Works in the Council's Housing Scheme. Applications, stating experience, salary required, on forms to be obtained from me and returned not later than 4th OCTOBER next. Intending applicants should apply to me for forms of application as soon as possible. Motor allowance will be granted on the County Council scale.

W. J. BARTON,
Clerk to the Council.

The Guildhall,
East Dereham,
19th September, 1945.

NORTHERN POLYTECHNIC, HOLLOWAY ROAD, N.7.

SCHOOL OF ARCHITECTURE.

VACANCIES exist for FULL-TIME and PART-TIME (Day and Evening Classes) STUDIO MASTERS in ARCHITECTURE.

Intending applicants should apply by letter in the first instance, giving details of previous experience and qualifications, to the Secretary.

COUNTY BOROUGH OF BURNLEY.

EDUCATION COMMITTEE.

BURNLEY MUNICIPAL COLLEGE.

Required as early as possible, LECTURER in BUILDING SUBJECTS, chiefly Building Construction, Mathematics and Building Science to Higher National Certificate Standard. Candidates should preferably have had experience in one of the Building Crafts. Burnham (Technical) Scale.

Application forms from the Director of Education, Education Offices, Burnley, by whom completed forms must be received not later than MONDAY, 8th OCTOBER, 1945. Canvassing prohibited.

ARCHIBALD GLEN,
Town Clerk.

CORPORATION OF THE CITY OF GLASGOW.

HOUSING DEPARTMENT.

Applications are invited for the position of CONTROLLER OF NEW WORKS. The person appointed will be responsible, under the Director of Housing, for the construction of Houses and Roads and Sewers by direct labour.

Applicants, who should be under 45 years of age, should have had wide experience in organisation and carrying out of large-scale building and civil engineering contracts, utilising the most up-to-date mechanical equipment, and should be familiar with modern methods of personnel management. The position is a permanent one, and the successful applicant will be required to pass a medical examination for admission to the Corporation's Superannuation Scheme.

The appointment will be made, according to qualifications, within a salary scale, at present fixed at £600-£10-£700, plus war increase (at present £60 per annum).

Applications, stating age, training, qualifications, experience, and giving the names of two referees, should be addressed to the undersigned in an envelope marked on the top left-hand corner, "Controller of New Works," and should be received not later than 15th OCTOBER, 1945.

RONALD BRADBURY,
Director of Housing.

20, Trongate, Glasgow, C.1.

BRIERLEY HILL URBAN DISTRICT COUNCIL.

APPOINTMENT OF CLERK OF WORKS.

Applications are invited for the temporary appointment of CLERK OF WORKS in connection with the construction of roads and sewers and the erection of dwelling-houses on sites within the district.

Applicants must have had experience in the construction of concrete roads, possess full knowledge of all building trades, experience in the supervision of the construction of roads and sewers and the erection of houses, and knowledge of plans and detailed drawings.

Inclusive salary £450 per annum.

Applications, stating age, full details of qualifications, experience, and position as to national service, accompanied by copies of three recent testimonials, should reach the undersigned not later than MONDAY, 8th OCTOBER, 1945.

HERBERT HEX,
Clerk of the Council.

Council Offices,
Moor-street,
Brierley Hill, Staffs
24th September, 1945.

BOROUGH OF BEXLEY.

APPOINTMENT OF THREE ASSISTANT ARCHITECTS.

Applications are invited for the appointments of ASSISTANTS in the Architect's Section of the Borough Engineer and Surveyor's Department.

The salary will be at the rate of £465-£20-£525 per annum, and at present carries a cost-of-living bonus of £59 16s. per annum.

The appointment will be terminable by one month's notice on either side and subject to the Council's Superannuation Scheme.

Candidates must be Associates of the Royal Institute of British Architects and have considerable experience in housing.

Applications, giving age, present and previous appointments and experience, and supported by testimonials, should be received by G. A. Joy, F.S.I. M.Inst.M. & Cy.E., M.R.S.I., Borough Engineer and Surveyor, by 6th OCTOBER, 1945.

Applicants must state in their applications whether to their knowledge they are related to any member of or holder of any senior office under the Council. Failure to do so or canvassing in any way will disqualify.

W. WOODWARD,
Town Clerk.

Council Offices,
Bexleyheath.

BOROUGH OF TAUNTON.

ARCHITECTURAL ASSISTANTS.

Applications are invited for the above appointment. Salary scale £315 £15-£360 p.a., plus cost-of-living bonus £59 19s. 3d p.a.

Candidates should possess an up-to-date knowledge of building construction and materials, and be competent and expeditious draughtsmen.

Applications from Members of H.M. Forces likely to be released soon will be welcomed.

Applications, with copies of testimonials, should be submitted to the undersigned by not later than SATURDAY, 20th OCTOBER, 1945

MAJOR A. G. JURY, A.R.I.B.A.,
Architect to the Council.

Architect's Department,
2, Baldwin-road,
Taunton.

DURHAM COUNTY COUNCIL.

COUNTY ENGINEER, SURVEYOR AND ARCHITECT'S DEPARTMENT.

APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the following temporary appointment:—

ARCHITECTURAL ASSISTANT, Grade "D." Salary £310 per annum, rising by £15 increments to £355 plus cost-of-living bonus, at present 24s. weekly.

Candidates should have approved qualifications and considerable experience in design, construction, preparation of working drawing details, specifications, etc., in connection with general building work.

The candidate appointed will be required to pass a medical examination, and the appointment will be subject to the Local Government Superannuation Act, 1937, and to the regulations for the time being of the County Council relative to the payment of wages or salary in the case of sickness.

Applications, giving particulars of age, experience and qualifications, previous and present appointments, etc., and enclosing copies of not more than three recent testimonials, should be forwarded to the undersigned not later than 11th OCTOBER, 1945.

WILLIAM J. MERRETT,
County Engineer, Surveyor and Architect.

County Surveyor's Office,
43, Old Elvet,
Durham.

BRIERLEY HILL URBAN DISTRICT COUNCIL.

ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:—

(a) ARCHITECTURAL ASSISTANT (Permanent). Salary £350-£400 per annum, according to experience, plus temporary cost-of-living bonus (£59 16s.) and payment for overtime beyond 39 hours per week.

(b) JUNIOR ASSISTANT (Draughtsman) (Permanent), male or female. Salary up to £250 per annum, according to age and experience, plus temporary cost-of-living bonus £59 16s. (males), £48 2s. (females), aged 21 years and over, and payment for overtime beyond 39 hours per week.

The appointments will be subject to the provisions of the Local Government Officers' Superannuation Act, 1937, and each selected candidate will be required to pass a medical examination.

Applications, stating appointment for which applied, age, full details of qualifications, experience and position as to national service, accompanied by copies of three recent testimonials, should reach the undersigned not later than MONDAY, 8th OCTOBER, 1945.

HERBERT HEX,
Clerk of the Council.

Council Offices,
Moor-street,
Brierley Hill, Staffs
24th September, 1945.

COUNTY OF BERKS.

APPOINTMENT OF COUNTY ARCHITECT.

The BERKSHIRE COUNTY COUNCIL invite applications for the post of COUNTY ARCHITECT from fully qualified Architects, who must be either Fellows or Associate Members of the Royal Institute of British Architects.

The commencing salary will be £1,100 per annum, rising by annual increments of £50 to a maximum of £1,400 per annum, together with the appropriate cost-of-living bonus. It is intended that the appointment should take effect, if practicable, on the 1st January, 1946.

Fuller particulars, terms of appointment and application forms can be obtained, on receipt of a stamped addressed envelope, from the undersigned, to whom applications should be delivered not later than MONDAY, 12th NOVEMBER, 1945.

H. J. C. NEOBARD,
Clerk of the Council.

Shire Hall,
Reading.

CITY OF BIRMINGHAM

EDUCATION COMMITTEE.

HANDSWORTH TECHNICAL SCHOOL.

Required as soon as possible, and in any case not later than 1st January, 1946, a full-time TEACHER of Building Subjects, preferably with industrial experience, for service in the Junior Technical School for Building.

Forms of application may be obtained by sending a stamped addressed envelope to the undersigned, to whom applications should be returned (in envelopes endorsed "S.E. Dept.") not later than 8th OCTOBER.

P. D. INNES,
Chief Education Officer.

Secondary Education Department,
Education Office,
Margaret-street,
Birmingham, 3.

COUNTY BOROUGH OF ROCHDALE.

TEMPORARY ARCHITECTURAL ASSISTANT.

Applications are invited for a TEMPORARY ARCHITECTURAL ASSISTANT in the Department of the Borough Surveyor and Architect, at a salary of £360, rising to £405 per annum, plus war bonus, at present amounting to £59 16s. per annum.

Applicants should be qualified architects, and have had experience of school, hospital and general work.

Applications, on forms to be obtained from the Borough Surveyor and Architect, Town Hall, Rochdale, must be delivered at the office of the undersigned not later than 9 a.m. on MONDAY, 15th OCTOBER, 1945.

HARRY BANN,
Town Clerk.

Town Hall, Rochdale,
20th September, 1945.

CUDWORTH URBAN DISTRICT COUNCIL.

APPOINTMENT OF CLERK OF WORKS.

Applications are invited for the appointment of a CLERK OF WORKS (Temporary) to supervise the construction of roads and sewers on the Council's Newtown-avenue Extension Site.

Candidates should have had considerable experience in the construction of sewers, concrete and tarmacadam carriageways, reinforced concrete construction, and supervision of erection of houses.

Subject to satisfactory service, term of appointment approximately nine months with probable extension.

The salary offered is £350 per annum, inclusive of bonus.

Applications, giving age and experience, together with copy testimonials, should be sent to the undersigned not later than TUESDAY, the 9th OCTOBER, 1945.

CECIL M. PRATT,
Clerk of the Council.

5, Regent-street,
Barnsley,
24th September, 1945.

ROSS AND WHITCHURCH RURAL DISTRICT COUNCIL.

APPOINTMENT OF ARCHITECTURAL DRAUGHTSMAN.

Applications are invited for the temporary appointment of ARCHITECTURAL DRAUGHTSMAN. Ex-Servicemen will receive special consideration. Commencing salary £300, rising by annual increments of £20 to a maximum of £400, plus Cost-of-Living Bonus (at present £59 16s. per annum).

Applications, endorsed "Architectural Draughtsman," stating age, past experience and present employment, accompanied by copies of three recent testimonials, should be received by the undersigned not later than the 15th OCTOBER, 1945.

D. H. THOMAS,
Clerk to the Council.

"Woodside,"
Ross-on-Wye,
Herefordshire.

BOROUGH OF DAGENHAM.

Applications are invited for the following permanent appointments in the Borough Engineer and Surveyor's Department:—

(a) CHIEF TOWN PLANNING ASSISTANT (PERMANENT). Salary £420 per annum and rising, subject to satisfactory service to £465 per annum. Applicants should, by examination, be Corporate Members of the Town Planning Institute, and preference will be given to those who possess additional qualifications in Architecture and/or Engineering, and have had considerable experience in the preparation and administration of Statutory Planning Schemes.

(b) ASSISTANT BUILDING INSPECTOR (PERMANENT). Salary £300 per annum, rising, subject to satisfactory service to £345 per annum. Applicants should hold the Building Inspector's Certificate of the Institution of Municipal and County Engineers and/or equivalent qualifications. Applicants should have had previous experience in a similar capacity with a Local Authority and should have a good general knowledge of building construction and be capable of examining in detail deposited plans and the supervision of building development, as required under the local Building Bye-laws and Town Planning Regulations.

A knowledge of the Factories Act, 1937 (means of escape in case of fire) and the Petroleum (Consolidation) Act, 1928 (Storage of Petroleum, etc.) will be an advantage.

The above salaries are exclusive of war bonus, which at present amounts to £59 16s. per annum, and the commencing salary will be fixed at a point on the grade, according to qualifications and experience.

The successful candidates will be required to pass a medical examination and will be subject to the Local Government Superannuation Act, 1937, and the appointments will be terminable by one month's notice on either side.

Application Forms are obtainable from the Borough Surveyor upon receipt of a stamped addressed foolscap envelope and should be delivered to the undersigned in the official envelope provided not later than 13th OCTOBER, 1945.

Canvassing disqualifies.

KEITH LAUDER,
Town Clerk.

Civic Centre,
Dagenham.
September, 1945.

YOUR SURVEYING and DRAWING OFFICE REQUIREMENTS

Although the restrictions on paper supplies prevent our issuing catalogues, we do invite your enquiries for the above-named apparatus and sundries, both new and second-hand. On receipt of your enquiry we shall be pleased to quote what we can supply, and price.

YOUR OWN APPARATUS TAKEN IN EXCHANGE, BOUGHT FOR CASH, OR SOLD ON COMMISSION.

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244, High Holborn, London, W.C.1

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COUNTY BOROUGH OF EAST HAM.

APPOINTMENT OF TEMPORARY TOWN PLANNING ASSISTANT.

Applications are invited for the position of TOWN PLANNING ASSISTANT (temporary) from Associate Members of the Town Planning Institute or persons holding an equivalent town planning qualification, and competent to undertake work in all aspects of post-war redevelopment.

Commencing salary £485, rising annually (on approved service) by £20 to a maximum of £525 per annum, plus war bonus, at present £59 16s. per annum.

The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, and the Council's conditions of service, and the successful candidate will be required to pass a medical examination.

Applications, on forms obtainable from the undersigned, and accompanied by copies of three recent testimonials, must reach me not later than TUESDAY, 23rd OCTOBER, 1945. Canvassing, either directly or indirectly, will be a disqualification.

C. V. THORNLEY,
Town Clerk.

Town Hall,
East Ham, E.6.

MIDDLESBROUGH EDUCATION COMMITTEE

CONSTANTINE TECHNICAL COLLEGE.

Principal: H. V. FIELD, B.Sc., Wh.Sch., M.I.E.E.

Applications invited for the post of TEACHER OF BUILDING SUBJECTS. Applicants must have sound technical knowledge of Building Practice. Teaching experience not essential, but ability to give practical instruction in Carpentry or Joinery, Brickwork or Masonry, desirable.

Burnham Technical Scale salary. Application forms from the undersigned, to whom completed forms should be returned not later than 17th OCTOBER.

STANLEY HIRST,
Director of Education.

Education Offices,
Woodlands road,
Middlesbrough.
25th September 1945.

ALDERSHOT BOROUGH COUNCIL.

QUANTITY SURVEYOR.

Applications are invited for the appointment of a qualified QUANTITY SURVEYOR for the preparation of Bills of Quantities and for measuring up on completion of Council houses to be erected in the Borough of Aldershot. The minimum period of employment will be for twelve months, and the salary to be paid will be at £600 per annum.

Applications should be addressed to Mr. F. Batterbury, B.Sc., Assoc.M.Inst.C.E., Borough Engineer and Surveyor, Municipal Buildings, Aldershot, so as to arrive not later than first post 10th OCTOBER, 1945.

F. BATTERBURY,
Borough Surveyor.

Municipal Buildings,
Aldershot.
25th September, 1945

BOROUGH OF WESTON-SUPER-MARE.

ASSISTANT BUILDING INSPECTOR.

Applications are invited for the above appointment on the temporary staff in the first instance, at a salary of £235 per annum, rising by annual increments to £300 per annum, plus cost-of-living bonus, at present £59 16s.

Candidates must have a good general knowledge of building construction and practice, and preference will be given to those who have had experience in the operation of building by-laws and the keeping of records.

The appointment will be subject to the Local Government Superannuation Act, 1937, and the successful candidate will be required to pass a medical examination. The appointment will be terminable by one month's notice on either side.

Applications, stating age, present appointment, and salary, together with full details of experience, and copies of two recent testimonials, are to be submitted to the undersigned not later than FRIDAY, 12th OCTOBER, 1945, endorsed "Assistant Building Inspector."

H. L. LLOYD, A.M.Inst.C.E.,
Borough Engineer.

Town Hall,
Weston-super-Mare,
24th September, 1945.

EDUCATIONAL

CAREERS AND QUALIFICATIONS IN BUILDING AND CIVIL ENGINEERING

Both Government and Industry announce and emphasise that young men with Technical knowledge and qualifications must receive every chance of rising to the highest posts within their capacity in post-war building and civil engineering. Write to-day for "The Engineer's Guide to Success"—200 courses—free—which gives particulars of the T.I.G.B.'s first class training for the L.I.O.B., A.M.Inst.C.E., A.M.I.Struct.E., M.R.San.I., A.M.I.E. & T.E., A.M.Inst.M. & Cy.E., C. & G., etc., Examinations in which T.I.G.B. home study students have gained 44 FIRST PLACES AND OVER 1,000 PASSES. The Guide covers careers in all branches—Reinforced Concrete Building Construction, Surveying and Levelling, Foundations, Sanitary Engineering Specifications, Estimates, Civil Engineering, etc. Mention post, branch or qualification that interests you. The T.I.G.B. guarantees training until successful.

THE TECHNOLOGICAL INSTITUTE OF GREAT BRITAIN
36, Temple Bar House, London, E.C.4.

THE ELLIS SCHOOL OF BUILDING,
2, ALBANY HOUSE, WORCESTER. Est. 1894

Candidates prepared by Postal Courses for the following Exams.: Licentiate Diploma of the Institute of Builders, R.I.B.A. and I.M.C.E. Building Inspectors, Incorporated Clerks of Works Association, Membership Royal Sanitary Institute (M.R.San.I.) and Institution of Sanitary Engineers (A.M.I.San.E.). Also for all City and Guilds Exams. in building subjects.

In 1944 First Places were obtained in both Parts of the Clerks of Works Exam., all fully trained Ellis candidates were successful in the Institute of Builders Exam. and over 90% successes were secured in the City and Guilds.

A descriptive booklet "Building Opportunities" giving particulars of more than twenty-five Ellis Building Courses sent free on request.

Special Note to members of H.M. Forces: Ellis Courses in Brickwork, Carpentry, Joinery, Painting and Plumbing are included in the War Office Correspondence Course Scheme and application for Enrolment should be made to Commanding or Education Officer in the same way as for other Courses in the War Office Scheme.

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is offered by the world's largest and greatest correspondence school in the following subjects:

Architecture
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Plan and Map Draughtsmanship
Structural Engineering
Concrete Engineering
Structural Drawing
Construction Draughtsmanship
Sanitary Engineering
Heating and Ventilation

Special Courses for the Diplomas of the R.I.B.A., I.O.B., C.S.I., Inst.C.E., Inst.M.&Cy.E., Inst.Struct.E., R.S.I., Inst.S.E., etc.

Special terms for members of H.M. Forces

Write to-day for Syllabus of our Courses in any of the subjects mentioned above.

INTERNATIONAL CORRESPONDENCE SCHOOLS LTD.,
Dept. 39, International Buildings,
KINGSWAY, LONDON, W.C.2

I. A. A. S.

THE **INCORPORATED ASSOCIATION** OF **ARCHITECTS & SURVEYORS**

75, EATON PLACE, BELGRAVE SQUARE, LONDON, S.W.1.

Telephone: Sloane 5613 and 3138

For particulars of membership apply to the General Sec., Major G. B. J. Athoe, F.C.I.S.

R.I.B.A. QUALIFYING EXAMINATIONS
C. W. BOX, F.R.I.B.A., M.R.San.I. (Late A. G. Bond)

Courses both by Correspondence and Personal Instruction, and in Studio.

115, GOWER ST., LONDON, W.C.1. Tel.: EUSton 3906
And at 23, St. James Street, Derby. Phone: 45648

PARTNERSHIPS, AGENCIES, ETC.

PROPERTY AGENT, with office in Glasgow, desires one or two good AGENCIES where existing connection with Building Contractor and Architects could be utilised.—Apply Box 1656, SOMMERVILLE & MILNE, Ltd., 55, West Regent-street, Glasgow, C.2.

PARTNERSHIP offered in old-established practice of ARCHITECT and SURVEYOR (London) with possible succession.—Apply, Box 366, "The Builder," W.C.2.

FIRM of high repute, established for over half a century, dealing with Builders, Ironmongers, etc., in Glasgow and the West of Scotland, desire additional AGENCY.—Box 416, "The Builder," W.C.2.

PRACTICAL BUILDER and PLANNER requires assistance to embark on an ambitious but sound scheme of development. Applications only from men over 50 (or ex-Service over 30) of British nationality prepared to invest up to £250 and take an active interest. All correspondence treated with confidence and acknowledged.—Letters only, BM/EANB, London, W.C.1.

TWO PRACTICAL MEN with Building Licence, with view to forming limited company, require FINANCIAL PARTNER.—Write, G. E., 519, Holloway-road, London, N.19.

SHOPFITTING EXPERT, ADVERTISER possessing complete knowledge and ability wishes to contact organisation such as Building or Joinery Firm, or individual, with a view to development or Partnership. Birmingham or Midlands preferred.—Box 423, "The Builder," W.C.2.

AGENTS or REPRESENTATIVES Required in connection with the sales of "Zeross" Anti-Burst Valves in territories enumerated hereunder:—

1. South-East London and North Kent.
2. Surrey.
3. Middlesex.
4. Herts, Beds, Bucks.
5. Essex.
6. Hunts, Cambs, Norfolk, Suffolk.
7. Oxfordshire, Gloucestershire.
8. Northants, Warwickshire.
9. Worcs, Herefordshire.
10. Lincs.
11. Leics, Rutland.
12. Nottinghamshire.
13. Derbyshire.
14. Staffordshire.
15. Cheshire, Shropshire.
16. Lancashire, Westmorland.
17. Yorkshire.
18. Wales.
19. Northern Ireland.
20. Isle of Man.

Knowledge of plumbing and hot-water installations preferred. Preference will be given to applicants who have connections with Architects, Plumbers, Heating Engineers, Builders' Merchants, etc.

Write, giving details of experience, connection, if any, and territory to which application refers, to S. GRAHAME ROSS, Ltd., "Zeross" Division, Bath-road, Slough, Bucks. Applications will be considered on the 17th OCTOBER, 1945.

LICENSED Building and Civil Engineering Company would like individual or firm with existing plant and facilities or capital to join it.—Apply, Box 507, "The Builder," W.C.2.

BUILDER, DECORATOR (Registered) Requires active WORKING PARTNER. Capital £500. £1,000. Knowledge of trade desirable. Those who have the initiative to make a business please reply, F., 162, Bath-road, Hounslow.

BUILDERS, having Plasterers, Plumbers, Painters, Plant and Vehicles, desire working arrangement with London Firm having Bricklayers, Carpenters, Slaters, etc. War damage or new building considered. —Write in confidence, "ACCOUNTANT," Box 491, "The Builder," W.C.2.

FINANCIAL

CONSIDERABLE SURPLUS FUNDS available at low interest rates for Building Finance, Property Mortgages, Ground Rents or any similar sound security in sums preferably of not less than £10,000. —CHAS. E. BUXTON, Ltd., Local Authorities Loans Brokers, 9, Clements-lane, Lombard-street, London, E.C.4.

PUBLIC NOTICES

CHANGE OF ADDRESS.

ON and after the 29th September, the address of the RAPID FLOOR CO., Ltd., will be Room 630, Africa House, Kingsway, W.C.2.

CATALOGUES WANTED

MR. A. W. LEWIS has resumed his appointment as MAINTENANCE MANAGER to PLUS PLATE MANAGEMENT, Ltd., and will be glad to receive trade information and catalogues when issued.—Present address, MAINTENANCE MANAGER, 16, Portland-road, W.11.

APPOINTMENTS OPEN

None of the vacancies in these columns relates to a man between the ages of 18 and 50 inclusive or a woman between the ages of 18 and 40 inclusive unless he or she is excepted from the provisions of the Control of Engagement Order, 1945, or the vacancy is for employment excepted from the provisions of that Order.

ARCHITECT Required by leading West End Firm of Surveyors. Must be not over 40, have had practical experience, and can prove ability and initiative. Responsible position with good prospects.—Applications, stating age, experience, and salary required, to H. K. N., Box 388, "The Builder," W.C.2.

ARCHITECT Required by large Multiple Firm for post-war reconstruction and development.—Write, giving full particulars of experience, qualifications, and salary required, to Box 404, "The Builder," W.C.2.

ARCHITECTURAL SENIOR ASSISTANT Required immediately. Must have first-class experience. Excellent opportunity for suitable applicants. — State age, experience, and full particulars, to W. H. WATKINS & PARTNERS, FF.R.I.B.A., 1, Clare-street, Bristol, 1.

ARCHITECTURAL ASSISTANT with housing and survey experience required.—Telephone Central 6683, or write Box 362, "The Builder," W.C.2.

EXPERIENCED ASST. Required by Architects and Chartered Surveyors. Full-time post.—Full particulars to MONTAGU EVANS & SON, 21, Brunswick-square, W.C.1. Terminus 7761.

ARCHITECTURAL ASSISTANT or DRAUGHTSMAN-TYPIST Required in Contractor's Drawing Office. Experience of housing an advantage.—State age, experience, and salary required, to E. H. BEADLEY & SONS, Swindon.

ARCHITECTURAL DRAUGHTSMAN, experienced in the preparation of scale and working drawings for faience and terra cotta, Required immediately.—Write, stating experience and salary required, to HATHERNWARE, Ltd., Loughborough.

OVERSEAS EMPLOYMENT.—Required for large Engineering, Structural Works and Foundries in India, ONE SENIOR STRUCTURAL DRAUGHTSMAN, ONE JUNIOR STRUCTURAL DRAUGHTSMAN, and ONE JUNIOR MECHANICAL DRAUGHTSMAN. Successful applicants, who should have a degree in Engineering, or equivalent technical qualifications, followed by practical Works experience and Drawing Office experience in structural or mechanical design and detailing up to the requisite standard, will receive four years' Agreement, free passage, medical attention and Provident Fund, and generous Home leave on renewal of contract, with a salary of Rs 1,100 per month (£82 approx.), rising to Rs. 1,250 (£93 approx.) per month in the case of the senior position, and Rs. 900 (£67 approx.) per month, rising to Rs. 1,050 (£78 approx.) per month in the case of the junior posts.

Written applications (no interviews), stating post applied for, and giving the following essential details: (1) Full name, (2) date of birth, (3) whether married, (4) National Service Registration Number and Local Office shown on Registration Card N.S.2, (5) medical grade, if known, (6) if discharged from the Forces, particulars of Service number, rank, unit, and reasons for discharge, (7) industrial training and experience, (8) name and address of present employers, (9) details of present work, should be sent to THE SECRETARY, OVERSEAS MANPOWER COMMITTEE (Ref. 1671/4), MINISTRY OF LABOUR AND NATIONAL SERVICE, York House, Kingsway, London, W.C.2. Applications cannot be acknowledged.

LARGE GLAZING AND ENGINEERING CONTRACTORS Require DRAUGHTSMAN. Metal windows and light structural engineering. Experience important. Only thoroughly alive and capable men need apply. Excellent prospects. London area. —Write full particulars to Box 3010, ARTHUR S. DIXON, Ltd., 229-231, High Holborn, London, W.C.1.

REQUIRED by large Manufacturing Concern, CIVIL ENGINEERING DRAUGHTSMAN accustomed to factory work, survey, and capable of preparing specifications and supervising work in progress.—Apply in first instance, stating experience, to Box 409, "The Builder," W.C.2.

FIRM of Chartered Quantity Surveyors urgently Requires competent SURVEYORS and ASSISTANT SURVEYORS for work in London. Permanency if suitable.—Apply, stating age, experience, salary, and when free, to Box 360, "The Builder," W.C.2.

SURVEYOR, capable of taking off own quantities, estimating for, measuring and agreeing contracts up to £5,000, Required for small Contract Department, North London Contractors. Salary £450.—Write, stating age, experience, and when free to commence, to E. R., c/o J. W. VICKERS & CO. Ltd., 7 and 8, Gt. Winchester-street, E.C.2.

CONTRACTOR'S STAFF Required by London Firm of Builders with offices in the Midlands, for duties as Quantity Surveyors, Assistant Surveyors, Workers-up and Measuring Clerks. Permanent situation offered with good prospects.—Reply, stating age, experience and salary, Box 370, "The Builder," W.C.2.

CONSULTING CHARTERED SURVEYORS (London) Require BUILDING SURVEYOR experienced in dilapidations and assessment of damage under Defence Acts.—Write, with full particulars of experience, etc., Box 331, "The Builder," W.C.2

REQUIRED, JUNIOR QUANTITY AND MEASURING SURVEYOR, capable of measuring work in progress on temporary housing sites and small works, in the Watford area. — Write, stating experience, salary required, to MANAGER, KEMPSTER, Ltd., Beechwood-rise, Watford.

MEASURING SURVEYOR Required by London Firm of Plastering Contractors. Previous experience essential.—Full particulars as to experience and salary required to Box 403, "The Builder," W.C.2.

SURVEYOR Required at once. Must be competent to prepare specifications for and supervise all building work, and deal with dilapidations war damage claims, etc.—Write full particulars to Box 411, "The Builder," W.C.2.

ESTIMATING SURVEYOR Required, fully experienced in building of extensive industrial and private contracts by well-known South Essex firm. Must be fully experienced in pre-war estimating and the knowledge of present-day costs.—Apply, stating salary, experience, with references, etc., Box 412, "The Builder," W.C.2.

SURVEYORS Wanted, London bomb damage, to prepare brief specifications for repairs, and works orders. Salary, according to ability, £400-£650.—Apply, Box 414, "The Builder," W.C.2.

IMMEDIATE Vacancy exists for MEASURING SURVEYOR and WORKERS-UP in the office of a London Quantity Surveyor.—Please apply, stating age, experience, and salary required, to Box 1790, c/o POOL'S, Aldwych House, London, W.C.2.

QUALIFIED MEASURING SURVEYORS and WORKERS-UP Required for London area.—Please apply by letter only to H. M. DOUGHTY & PARTNERS, 55, Pall Mall, S.W.1.

BUILDING SURVEYOR Required by N.W. London Firm of Builders for house building and general contracting. Must have thorough knowledge of quantities and progressing. Qualifications not essential. Applications, stating age and details of experience, to Box 480, "The Builder," W.C.2.

SURVEYOR, Surrey Office. Schedules of dilapidations and condition building plans; management, land surveying and valuation work an asset. Permanent and progressive position in old-established firm. —Box 494, "The Builder," W.C.2.

LONDON Quantity Surveyors Require a SENIOR ASSISTANT for taking off and site measurement, and a SENIOR WORKER-UP.—Reply in confidence to Box 415, "The Builder," W.C.2.

REQUIRED in Quantity Surveyors' office, TWO JUNIORS straight from school or two with one or two years' experience.—Call or write, GEORGE SPENCER & CO., 26/27, King-street, E.C.2.

LONDON Surveyors Require ASSISTANTS for measuring on outside contracts, taking off London office, and inspecting and reporting on bomb-damaged premises.—Write fully to Box 406, "The Builder," W.C.2.

QUANTITY SURVEYORS' SENIOR ASSISTANT Wanted for Midlands Office. Must be competent taker-off and capable of taking full responsibility.—Reply, stating age, salary, qualifications and experience, to Box 330, "The Builder," W.C.2.

VACANCY in London Quantity Surveyor's office for a keen young ASSISTANT who has passed Final C.S.I.—Box 445, "The Builder," W.C.2.

ASSISTANT SURVEYOR Required by Quantity Surveyor for war damage work West London area. Salary £8 to £10 per week.—Box 356, "The Builder," W.C.2.

FIRM of Chartered Quantity Surveyors urgently Requires ASSISTANTS for site measuring of war damage repairs in E and S.W. London. Prospects of permanency.—Apply, stating age, salary expected, and when free, to Box 361, "The Builder," W.C.2.

CHARTERED QUANTITY SURVEYORS Require ASSISTANCE for supervising and checking war-damage repair work in the London area.—In reply, please state age, experience, and salary required, to Box 331, "The Builder," W.C.2.

ASSISTANT Required in Surveyors' and Estate Agents' office. Experienced in specifications, supervision of works and war damage claims.—Apply, stating age, experience, and salary required, to PHILLIPS & LANE, Civic Chambers, Southampton.

JUNIOR ASSISTANT with some experience of measuring or checking time-sheets Required by City Quantity Surveyors. Salary £5 p.w. Good prospects.—Box 450, "The Builder," W.C.2.

TAKER-OFF and WORKER-UP Required by London Quantity Surveyors with moderate-sized practice. Opportunity for varied experience.—Write, stating full particulars and salary expected, to Box 355, "The Builder," W.C.2.

JUNIOR TAKERS-OFF and WORKERS-UP Required.—Write, MAY & MAY, Quantity Surveyors, 9, New-square, Lincoln's Inn, W.C.2.

CHARTERED QUANTITY SURVEYORS Require TAKER-OFF for permanent position in their London Office.—In reply, state age, experience, and salary required, to Box 382, "The Builder," W.C.2.

CHARTERED QUANTITY SURVEYORS Require experienced TAKER-OFF for permanent position in their London Office. State age, experience, and salary required.—Box 483, "The Builder," W.C.2.

LONDON Chartered Quantity Surveyor urgently Requires THREE TAKERS-OFF and several WORKERS-UP, permanent or temporary.—Box 470, "The Builder," W.C.2.

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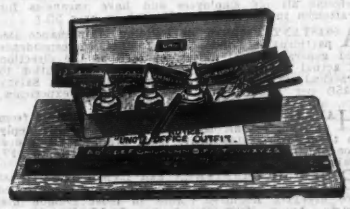

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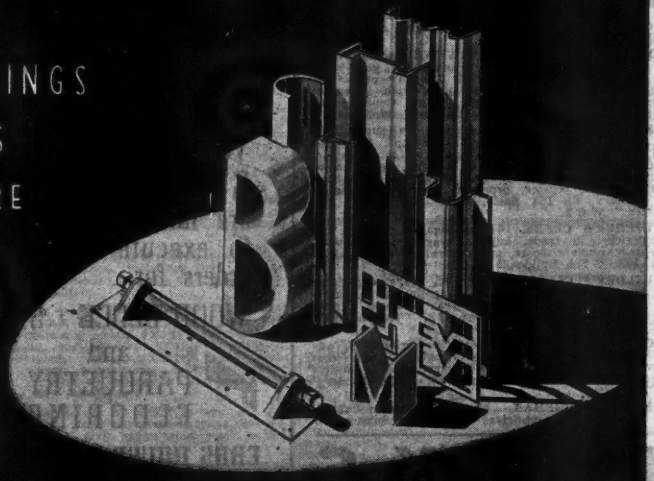

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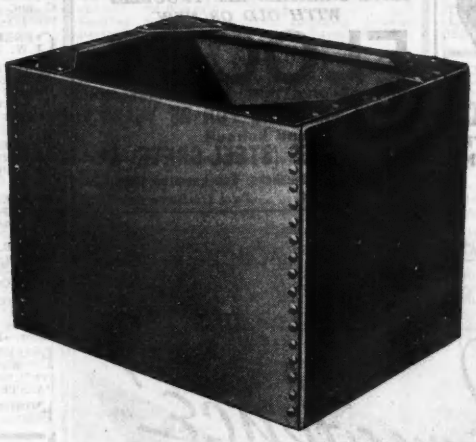

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All advertisements are subject to the approval of the Proprietors, who reserve the right to decline, omit or vary at any time.

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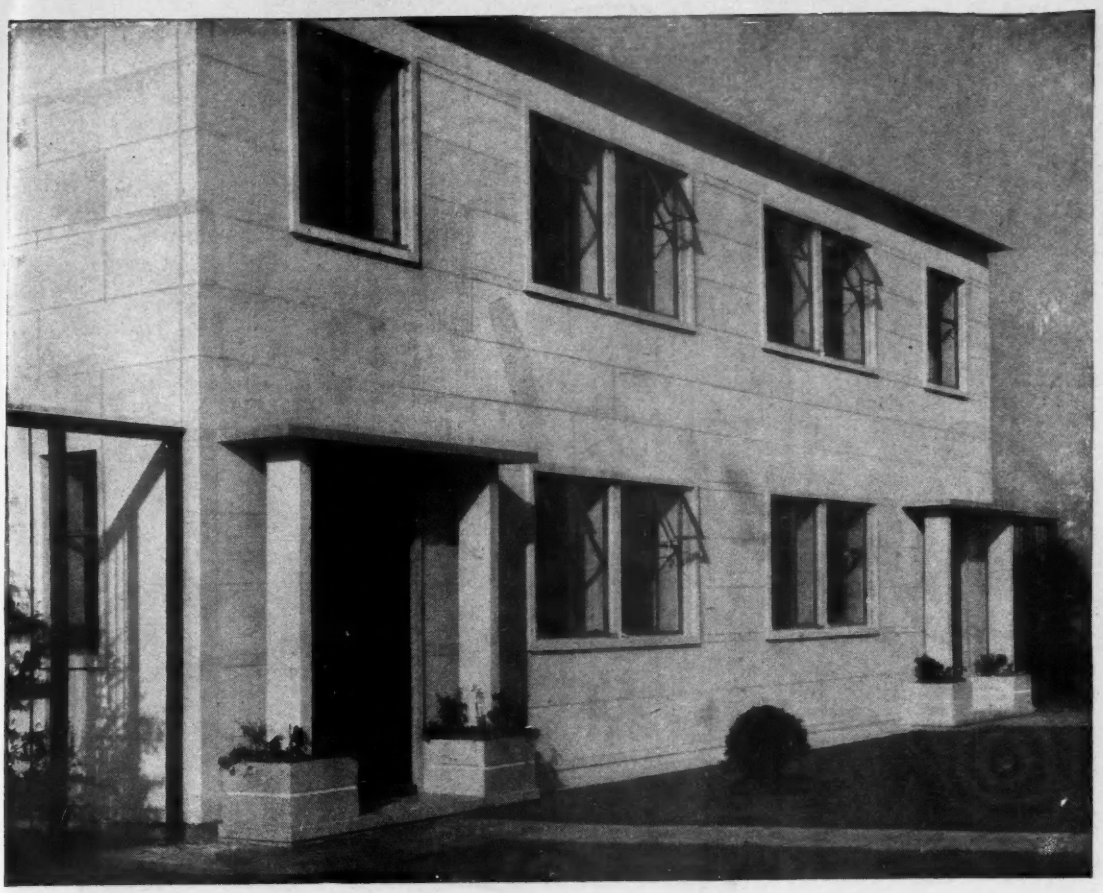

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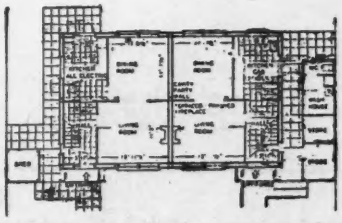

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